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# **TEST YOUR IQ**



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# **TEST YOUR IQ**

**400 questions to**  
*boost your brainpower*

**Philip Carter & Ken Russell**



First published in 2000  
Reprinted in 2001, 2004  
Reissued in 2007

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### **British Library Cataloguing in Publication Data**

A CIP record for this book is available from the British Library.

ISBN-10 0 7494 4833 4  
ISBN-13 978 0 7494 4833 2

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Typeset by Saxon Graphics Ltd, Derby  
Printed and bound in Great Britain by Creative Print and Design  
(Wales), Ebbw Vale

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# Introduction

Intelligence is the ability to respond adaptively to new situations, to think abstractly and to comprehend complex ideas. IQ is the abbreviation for Intelligence Quotient. The word quotient means the number of times that one number will divide into another. An intelligence test (IQ Test) is a standardized test designed to measure human intelligence as distinct from attainments.

The measured IQ of children is equal to mental age divided by actual (chronological) age. For example, if a child of eight years of age obtains a score expected of a ten-year-old, the child will have a measured IQ of 125, by means of the following calculation:

$$\frac{\text{Mental age}}{\text{Chronological age}} \times 100 = \text{IQ}$$

or

$$\frac{10}{8} \times 100 = 125 \text{ IQ}$$

This method of calculating IQ does not apply to adults because beyond the age of 18 there is little or no improvement in mental development. Adults, therefore, have to be judged on an IQ test in which the average score is 100. The results are graded above and below this norm according to known test scores.

The tests that have been compiled for this book have not been standardized, so an actual IQ assessment cannot be given. However, at the end of this Introduction there is a guide to assessing your performance in each test and also a cumulative guide for your overall performance on all ten tests.

The tests are intended as valuable practice for readers who may have to take an IQ test in the future, and they will also help to increase your vocabulary and to develop your powers of calculation and logical reasoning. The questions are challenging, and deliberately so, as this is the only way to boost your performance and increase your brainpower.

The book consists of ten separate tests for you to attempt, each of 40 questions. Each test is of approximately the same degree of difficulty. A time limit of **90 minutes** is allowed for each test. The correct answers are given at the end of the book, and you should award yourself one point for each correct answer.

Use the following tables to assess your performance:

### One test

<i>Score</i>	<i>Rating</i>
36–40	Exceptional
31–35	Excellent
25–30	Very good
19–24	Good
14–18	Average

### Ten tests

<i>Score</i>	<i>Rating</i>
351–400	Exceptional
301–350	Excellent
241–300	Very good
181–240	Good
140–180	Average



# Test one

- 1 Create two words using the following ten letters each once only.

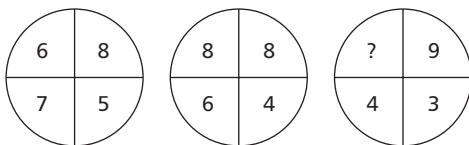
Clue: grand tune (4, 6)

MYSEVODLTA

- 2 Which is the odd one out?

ISTHMUS, FJORD, ATOLL, POLDER, ARCHIPELAGO

- 3 What number should replace the question mark?

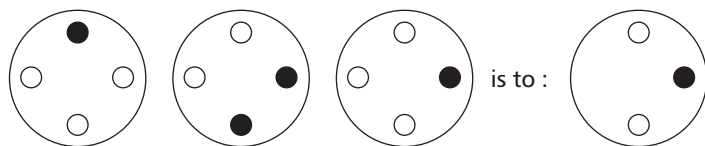


- 4 CARTON, ENJOYMENT, WORDSMITH

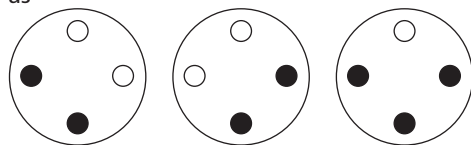
Which of the following words continues the above sequence?

COPY, REEF, COPE, REST, ACHE

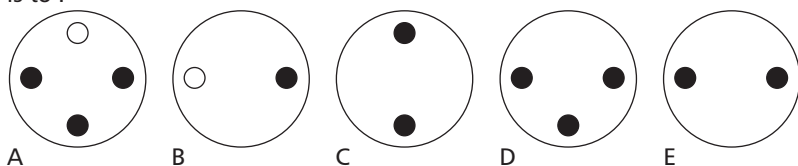
## 5 Comparison



as



is to :



## 6 What word in brackets means the same as the word in capitals?

FORTE (endowment, conduct, talent, redoubt, style)

## 7 What number comes next in this sequence?

25, 32, 27, 36, ?

- 8 Place two letters in each bracket so that these finish the word on the left and start the word on the right. The letters in the brackets, read downwards in pairs, will spell out a six-letter word.

Clue: blue-pencil

FA ( . . ) SK

HO ( . . ) AN

KI ( . . ) AR

- 9 A car travels at a speed of 40 mph over a certain distance and then returns over the same distance at a speed of 60 mph. What is the average speed for the total journey?
- 10 Spiral clockwise round the perimeter to spell out a nine-letter word, which must finish in the centre square. The word commences at one of the corner squares. You must provide the missing letters.

	N	
B	E	A
A	C	N

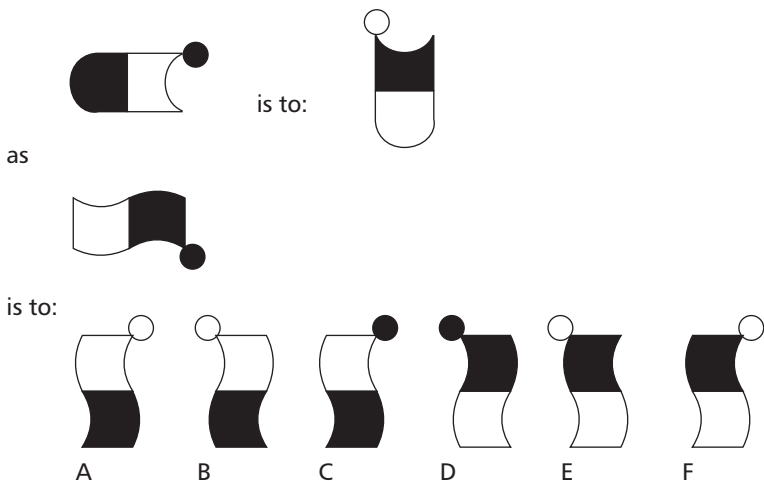
11 MEANDER: WIND

TRAVERSE: a) stampede  
b) forward  
c) across  
d) retrace  
e) towards

12 What familiar phrase is indicated below?



13 Comparison



- 14 The following is an anti-magic square, where none of the horizontal, vertical or corner-to-corner lines totals 34. It is possible, however, by moving the position of just four of the numbers to convert this into a true magic square, where each horizontal, vertical and corner-to-corner line adds up to 34.

Can you make the necessary corrections?

4	14	8	1
9	16	6	12
5	11	10	15
7	2	3	13

- 15 What do the following words have in common?

LEGUMES, QUASHED, AFFIRMS, CLOAKED

- 16 What number should replace the question mark?

926 : 24

799 : 72

956 : ?

- 17 Solve the three anagrams to complete a quotation by Confucius.

Clue: Save something for a rainy day.

WHEN

P . . . P . . . .  
↑ SOPPY TRIER ↑

C . . . . , . . N . .  
↑ DEMON COOTS ↑

. . E A . . . . IT.  
↑ FOUL ALES ↑

- 18 Add one letter, not necessarily the same letter, to each word at the front, end or middle to find two words that are opposite in meaning.

LOG PITY

- 19 What number should replace the question mark?

7	10	9	6
5	1	3	7
2	3	2	1
4	12	8	?

- 20 What well-known proverb is opposite in meaning to the one below?

Beware of Greeks bearing gifts.

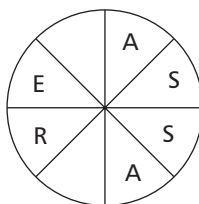
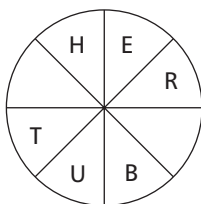
21 Which word means the same as ANCHORITE?

- a) recluse
- b) hieroglyphics
- c) trammel
- d) lackey

22 What is the value of x?

$$64 - 12 \times 2 + 6 \div 3 = x$$

23 Fill in the blanks, clockwise or anti-clockwise, to form two words that are synonyms.



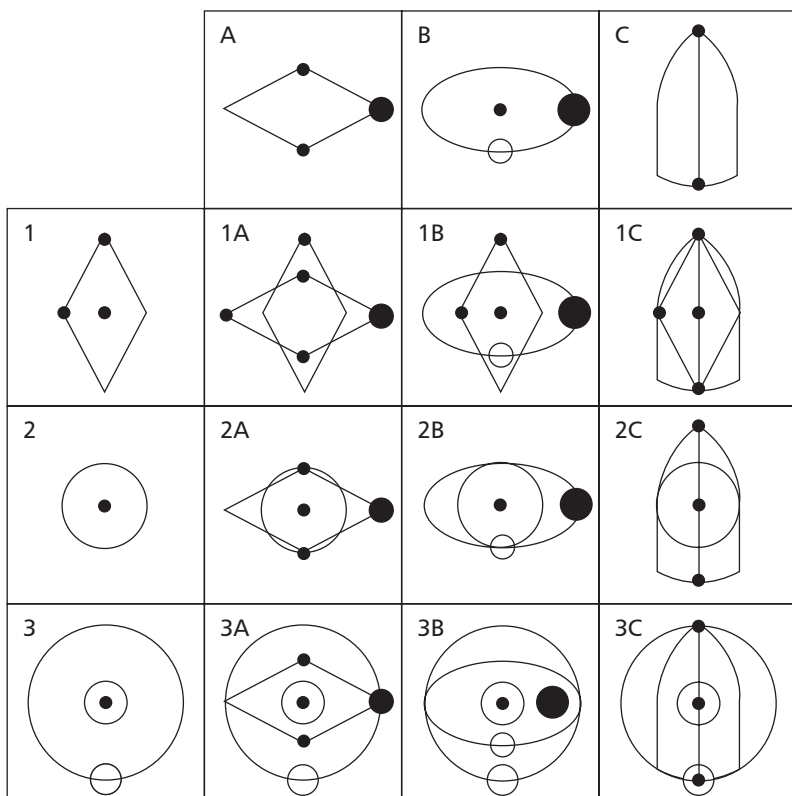
24 What is JULIENNE?

- a) reed bunting
- b) an evergreen shrub
- c) a sleeveless jacket
- d) clear soup
- e) a skull-cap

## 25 Grid

Each of the nine squares in the grid marked 1A to 3C should incorporate all the lines and symbols that are shown in the squares of the same letter and number immediately above and to the left. For example, 2B should incorporate all the lines and symbols that are in 2 and B.

One of the squares is incorrect. Which one is it?





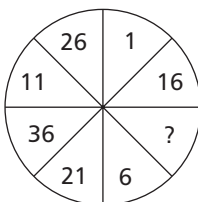
26 Solve the one-word anagram.

APE COLT

27 Insert a word that means the same as the words outside the brackets.

COOK ( . . . . ) CROSS EXAMINE

28 What number should replace the question mark?



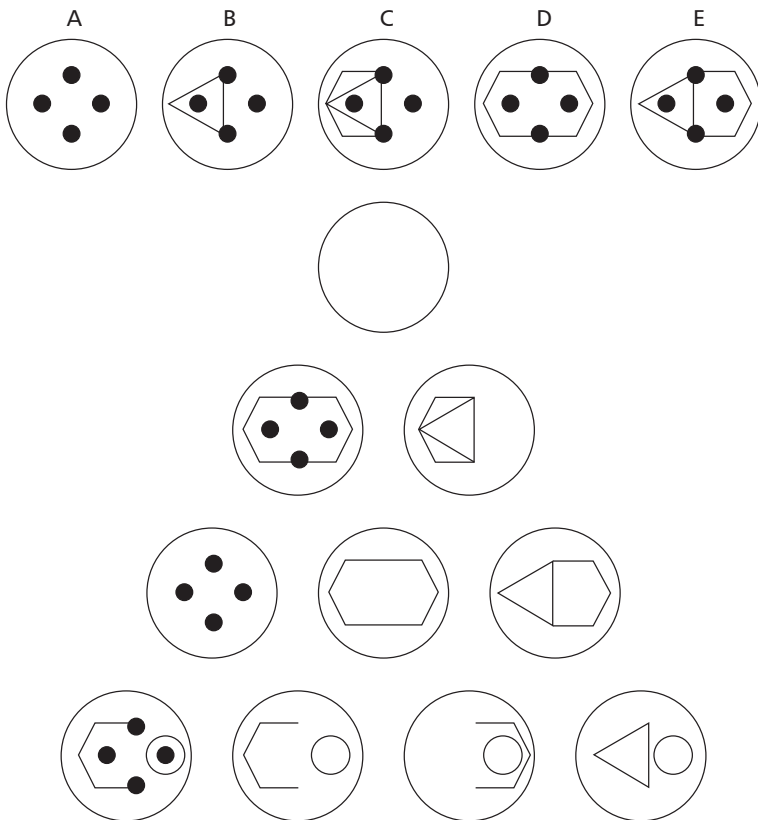
29 Make a six-letter word using only these four letters:

R E

F L

### 30 Circles

Which of A, B, C, D or E fits into the blank circle to carry on a logical sequence?



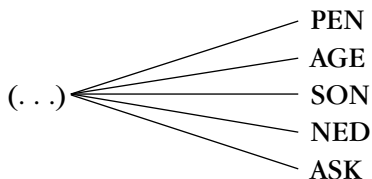
### 31 Which two words mean the opposite?

DOLOROUS, CONVENE, DISPARAGE, OFFEND, PRAISE, TREMBLE

32 What is the name given to a group of ROOKS?

- a) murmuration
- b) park
- c) building
- d) set
- e) business

33 Replace the dots with a word to make five new words.

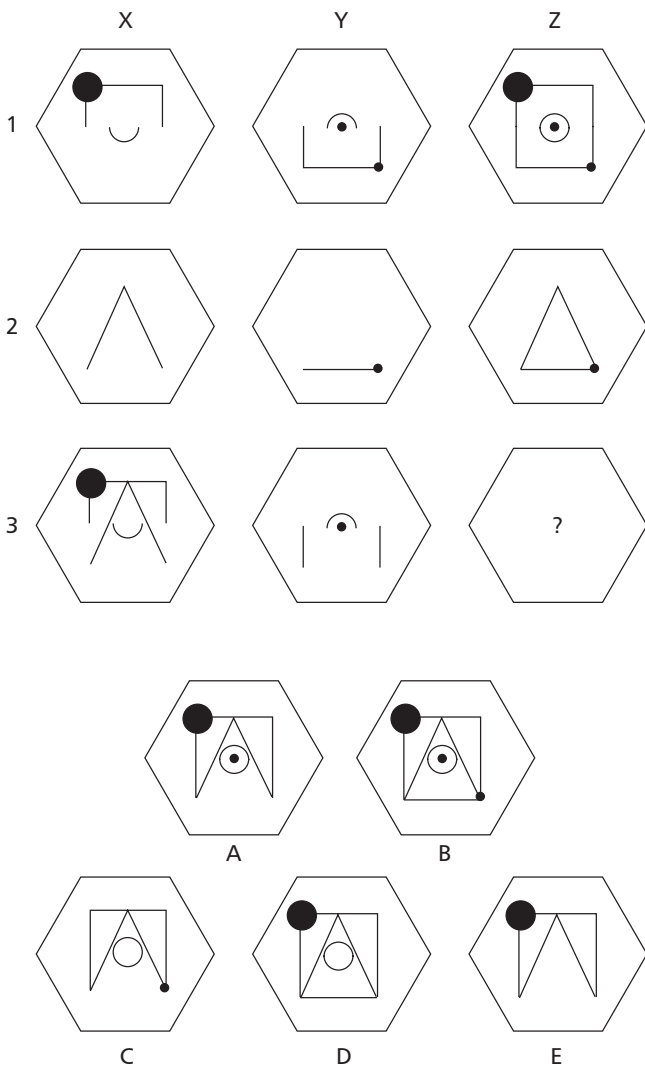


34 What number should replace the x ?

$$\frac{5}{6} \div \frac{1}{7} = x$$

### 35 Hexagon

Which hexagon, A, B, C, D or E, fits the missing space?



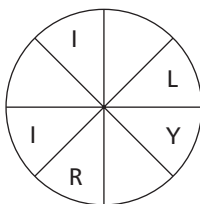
36 Place three two-letter bits together to make a CURRENCY.

DO – RO – LI – ES – EK – SH – UB – CU – AL

37 What is always associated with a BINNACLE?

- a) a jib
- b) a life raft
- c) a limpet
- d) a mast
- e) a compass

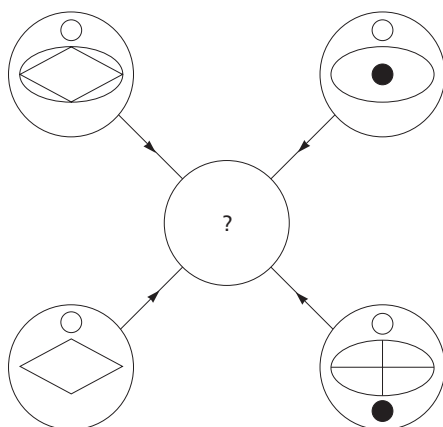
38 Fill in the blanks, clockwise or anti-clockwise, to complete the word.



39 What number should replace the question mark ?

7	8	8	48
9	7	5	58
11	5	7	48
6	12	5	?

## 40 Symbols

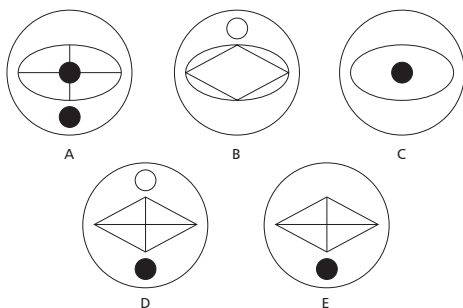


Each line and symbol that appears in the four outer circles, above, is transferred to the centre circle according to these rules:

if a line or symbol occurs in the outer circles:

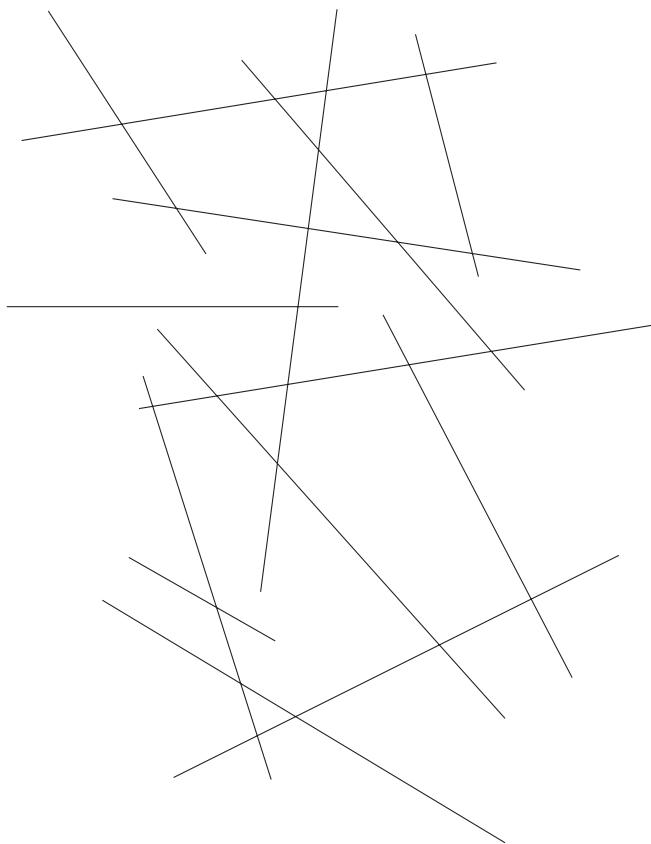
- once: it is transferred
- twice: it is possibly transferred
- 3 times: it is transferred
- 4 times: it is not transferred.

Which of the circles A, B, C, D or E, shown below, should appear at the centre of the diagram, above?



# Test two

1 How many lines appear below?



- 2 Susceptible to attack or damage.

Which word below most closely fits the above definition?

DEBILITATED, VULNERABLE, UNSTABLE,  
EMASCULATED, UNPREPARED

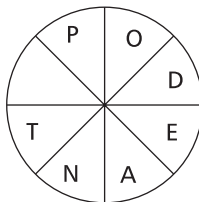
- 3 SUNDAY  
MONDAY  
TUESDAY  
WEDNESDAY  
THURSDAY  
FRIDAY  
SATURDAY  
SUNDAY

Which day is three days before the day immediately following the day two days before the day three days after the day immediately before Friday?

- 4 Change one letter only in each word below to find a well-known phrase.

ON TIE WINK

- 5 Spiral clockwise to spell out a ten-letter word that starts and finishes with the same two letters. You must provide the missing letter.





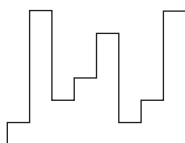
- 6 Insert the letters provided into the spaces to spell out a palindromic phrase, that is, one that reads the same backwards and forwards.

Clue: exercise franchise

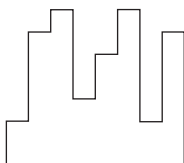
TREE VISITOR

...S. . . .O . . . .

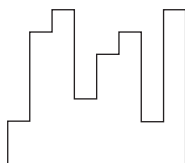
- 7 Squares



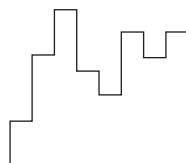
Which of the following pieces, when fitted to the above piece, will form a perfect square?



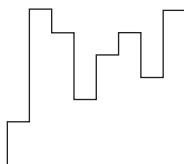
A



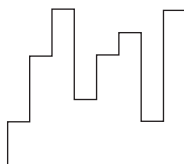
B



C

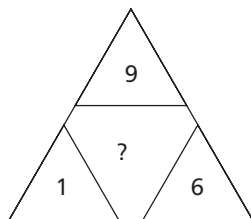
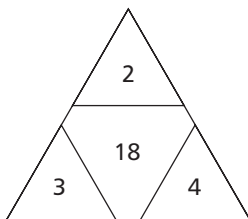
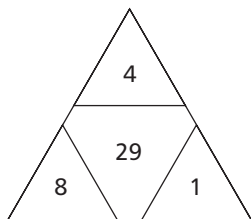


D



E

- 8 On glancing through your morning newspaper you notice that four pages are missing. One of the missing pages is page 8. The back page of the newspaper is 28. What are the other three missing pages?
- 9 Which of the following is not an anagram of a type of book?
- NEIL COX  
ASSURE HUT  
SUMO BIN  
SACK OBOE  
ROY COKE
- 10 Which word in brackets is opposite in meaning to the word in capitals?
- SIGNIFICANT (ordinary, stupid, modest, petty, dull)
- 11 FELINE: CAT  
VULPINE: a) ferret  
b) fox  
c) deer  
d) wolf  
e) sheep
- 12 What number should replace the question mark?



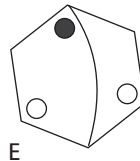
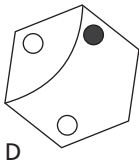
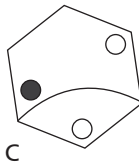
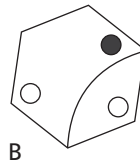
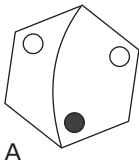
- 13 Find two words, one in the first grid and one in the second, that are antonyms. The words can be read backwards, forwards, horizontally, vertically or diagonally, but always in a straight line.

T	E	D	Y	T
R	R	U	L	S
Y	A	A	P	A
S	H	R	P	L
T	S	F	A	B

H	I	M	S	P
P	R	P	M	A
A	A	A	T	S
T	R	A	T	S
T	E	M	A	S

- 14 Odd one out

Which of A, B, C, D or E is the odd one out?



- 15 Arrange the following words in a line so that each pair of words in the line forms a new word or phrase:

for example: word, game, pass, point = pass, word,  
game, point to give the words or phrases, password,  
word game and game-point.

SHORT, GROUP, WATER, LINE, STORY, AGE, FRESH, FALL

- 16 Which two numbers come next in this sequence?

38, 24, 62, 12, 74, ?

- 17 Which is the odd one out?

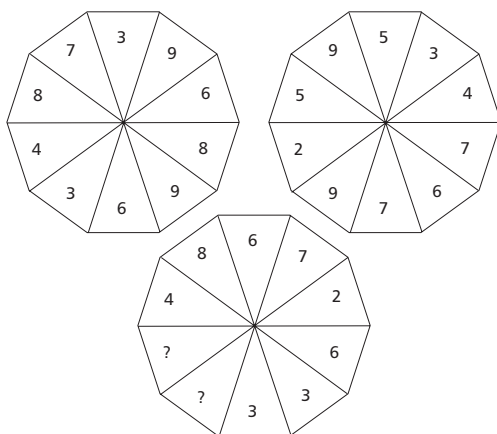
ROOSTER, BUCK, GANDER, PEN, RAM

- 18 The following is extracted from which hyphenated word?

Clue: viewing area

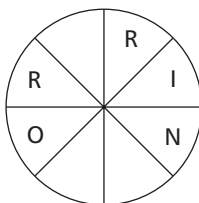
..... R E - G A .....

- 19 Which two numbers should replace the question marks?



20 OUTLINE TAX is an anagram of which 10-letter word?

21 Fill in the blanks, clockwise or anti-clockwise, to complete the word.



22 What is always associated with a CARBOY?

- a) velveteen
- b) a mechanic
- c) a valet
- d) basketwork
- e) a bell boy

23 Insert a word that means the same as the words outside the brackets.

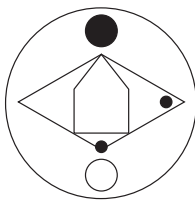
SMALL WATCH ( . . . ) FOIST

24 Solve the one-word anagram.

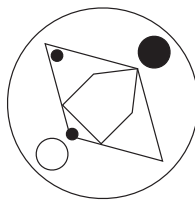
COD COILER

25 Odd one out

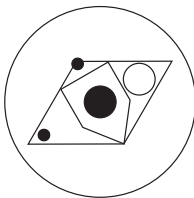
Which of these is the odd one out?



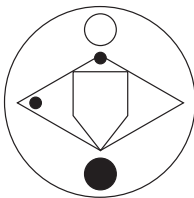
A



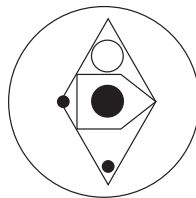
B



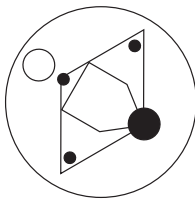
C



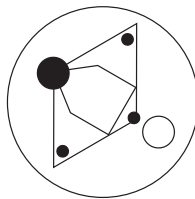
D



E



F



G

26 What number should replace the question mark?

61, 54, 62, ?, 63, 56, 64

27 What is a KIBITZER?

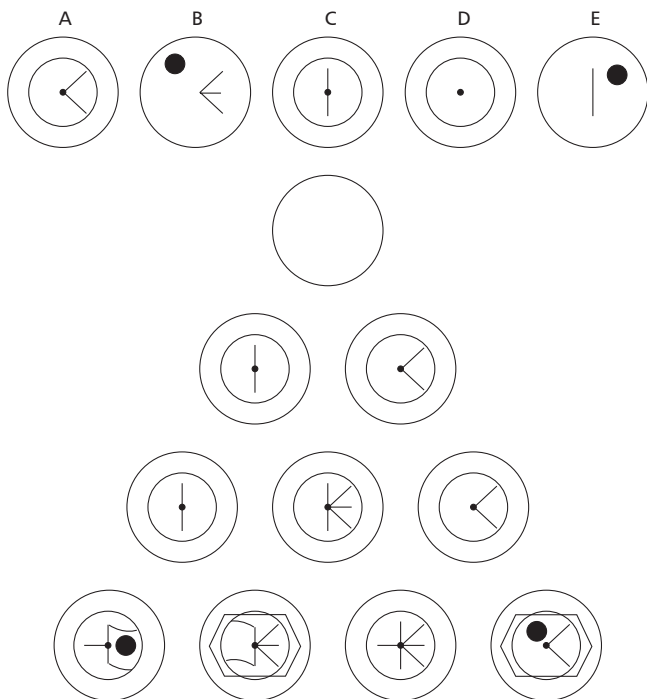
- a) a settlement
- b) a covered wagon
- c) a trinket
- d) a fish trap
- e) an onlooker

CAS – CHE – ACA – RRI – HER – CIA – AND – ALM

( . . . )

- CLIMBER
- BOTTOM
- GARDEN
- CRYSTAL
- PLANT

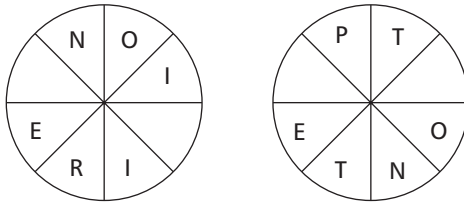
Which of A, B, C, D or E fits into the blank circle to carry on a logical sequence?



31 Which two words mean the same?

FLACCID, FLICKERING, MENDACIOUS, INFLUENTIAL,  
VITAL, LAMBENT

32 Fill in the blanks, clockwise or anti-clockwise, to form two words that are synonyms.



33 Which word means the same as NEOPHYTE?

- a) scallywag
- b) junta
- c) gimrack
- d) novice

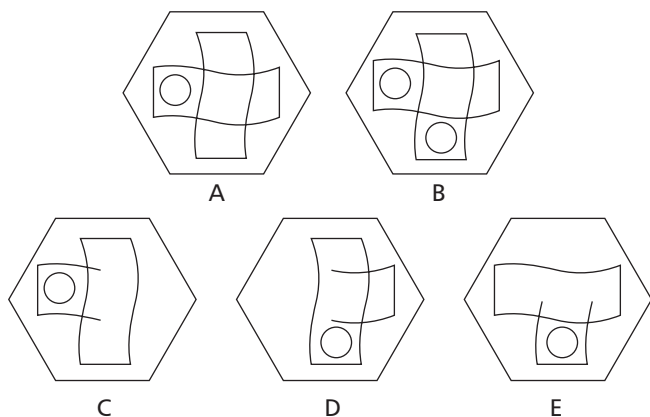
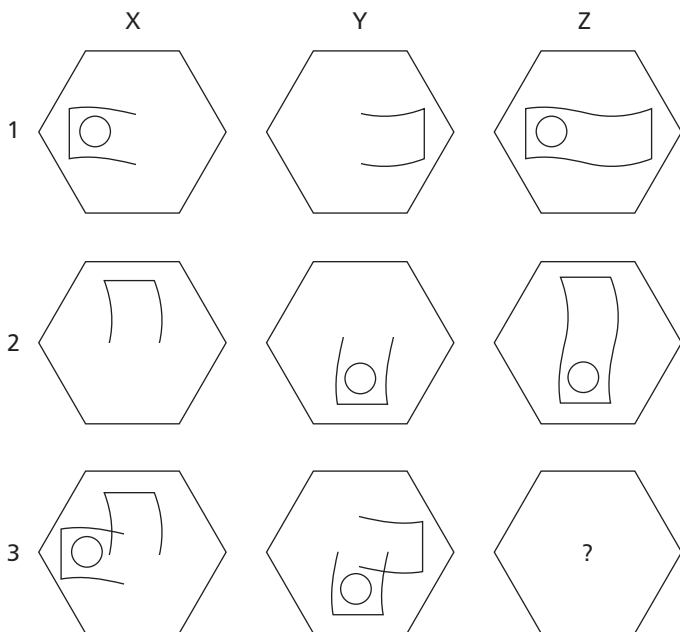
34 What is the value of x?

$$\frac{4}{13} \div \frac{9}{52} = x$$



### 35 Hexagon

Which hexagon, A, B, C, D or E, fits the missing space?



36 What number should replace the question mark?

7	6	4	52
9	3	5	60
10	5	4	60
8	7	3	?

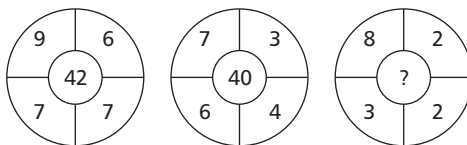
37 What is the value of x?

$$7 \times 9 - 3 \times 4 + 10 = x$$

38 What is the name given to a group of HERRINGS?

- a) caste
- b) quiver
- c) sute
- d) sedge
- e) glean

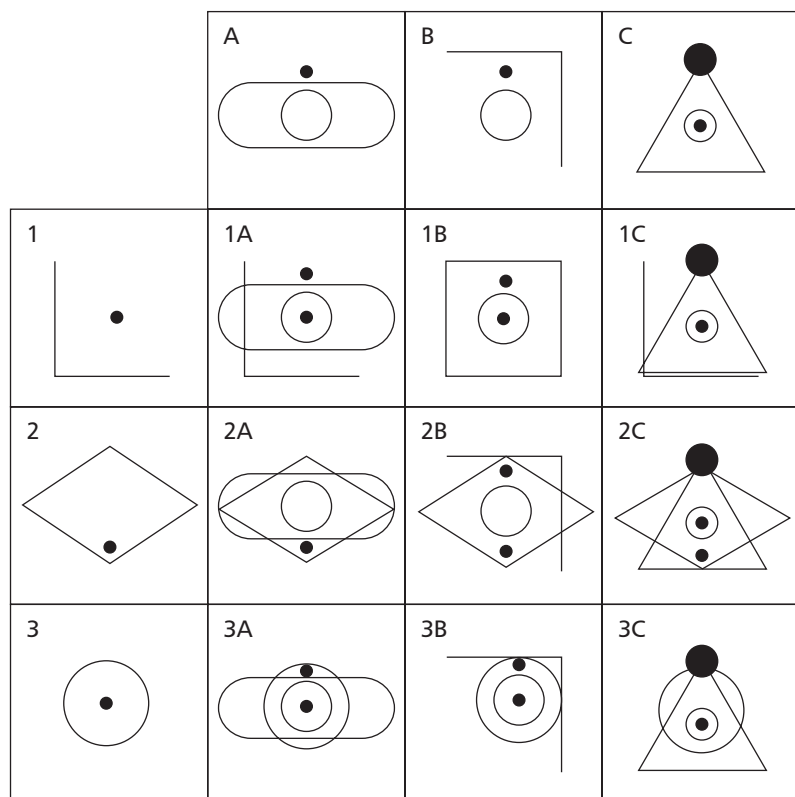
39 What number should replace the question mark?



#### 40 Grid

Each of the nine squares in the grid marked 1A to 3C should incorporate all the lines and symbols that are shown in the squares of the same letter and number immediately above and to the left. For example, 2B should incorporate all the lines and symbols that are in 2 and B.

One of the squares is incorrect. Which one is it?

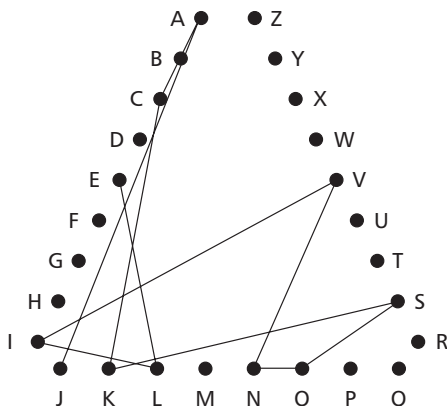


# Test three

- 1 You are looking for one word in this paragraph. The word appears only once, its first letter is the ninth letter to appear after a certain vowel and the same vowel is the fifth letter to appear after its last letter.
- 2 Find the starting point and track from letter to letter along the lines to spell out the name of an American city (12 letters).

There is one double letter in the name.

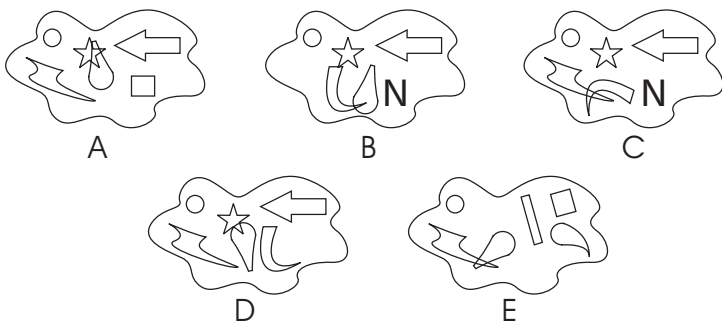
Note: when travelling from letter to letter along a side of the triangle, lines may have to pass through letters that are not part of the solution.



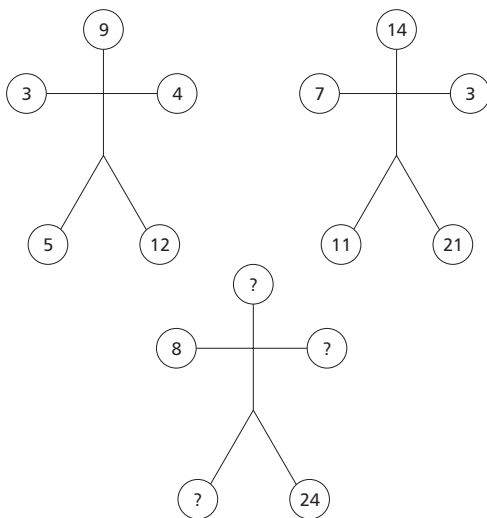
### 3 Sequence



Which option below continues the above sequence?



### 4 What numbers should replace the question marks?



- 1211241211471925145

- SEMI ARC CRIME ACE

- 
- A collection of 12 circles, each containing a number. The numbers are: 4, 36, 8, 20, 56, 28, 32, 9, 18, 14, 16, and 7.

- Clue: musical solo

[illegible]

- 9 Solve the cryptic clue below. The answer is a 10-letter word anagram contained within the clue.

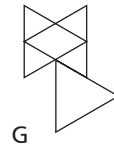
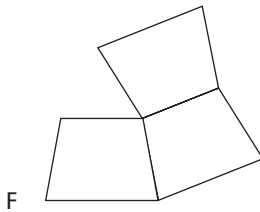
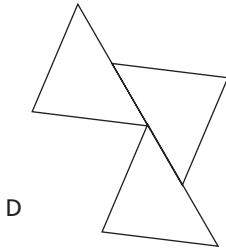
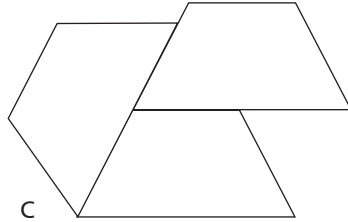
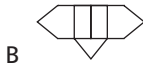
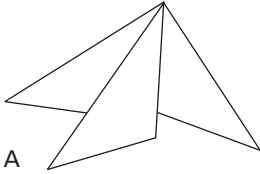
NEEDLEWORK  
DECORATES  
MY DIRE  
ROBE

- 10 What is a BURGEE a type of?

- a) elastic
- b) flag
- c) rope
- d) window
- e) food

11 Odd one out

Which is the odd one out?





12 Which two of these words are closest in meaning?

GLUT, SUPPLICATION, AID, CACHE, GUIDANCE, PLEA

13 Which number comes next in this sequence?

1, 2, 0, 3, -1, 4, ?

14 Complete each seven-letter word in such a way that the name of a novel is spelt out by the three letters inserted in each word. You are actually looking for seven three-letter words.

HO . . . AD

SC . . . ED

RO . . . CE

SL . . . ER

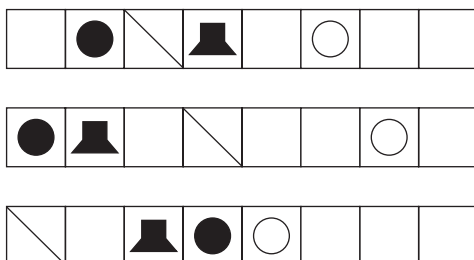
DI . . . RY

RO . . . TE

15 What, with reference to this question, is the next number in the sequence below?

3, 3, 5, 1, 3, 4, 1, 2, 3, 4, 1, 2, ?

## 16 Sequence

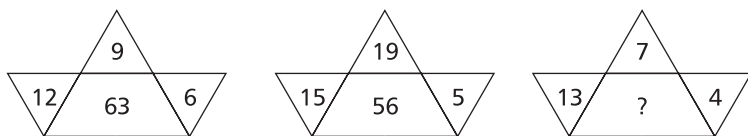


Which option below continues the above sequence?

- A
- B
- C
- D
- E

## 17 LOB is to ORE as ORB is to ?

18



What number should replace the question mark?

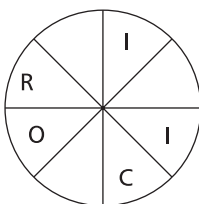
- 19 Which two words that sound alike, but are spelt differently, mean:

SLACK/REQUIRES

- 20 Which word in brackets is opposite in meaning to the word in capitals?

FREQUENT (glow, restrain, avoid, discard, resort)

- 21 Fill in the blanks, clockwise or anti-clockwise, to complete the word.



22 What number should replace the question mark?

6		10
	104	
2		7

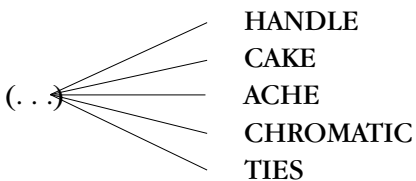
11		6
	69	
3		12

17		10
	?	
2		5

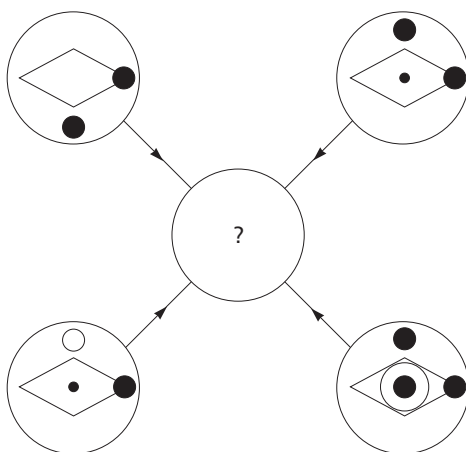
23 What is always associated with DOLMEN?

- a) clothes
- b) ironwork
- c) stone
- d) a statue
- e) brickwork

24 Replace the dots with a word to make five new words.



## 25 Symbols

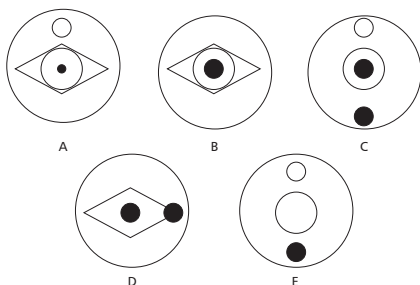


Each line and symbol that appears in the four outer circles, above, is transferred to the centre circle according to these rules:

if a line or symbol occurs in the outer circles:

- once: it is transferred
- twice: it is possibly transferred
- 3 times: it is transferred
- 4 times: it is not transferred.

Which of the circles A, B, C, D or E, shown below, should appear at the centre of the diagram, above?



26 What is the name given to a group of FINCHES?

- a) a charm
- b) a cluster
- c) a nest
- d) a pace
- e) a spring

27 What is the value of x?

$$\frac{5}{11} \div \frac{15}{44} = x$$

28 Place three two-letter bits together to make a BIRD.

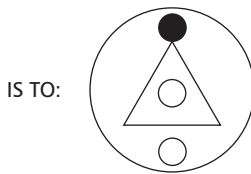
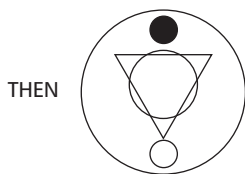
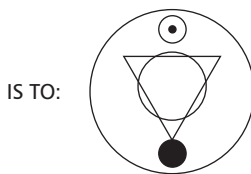
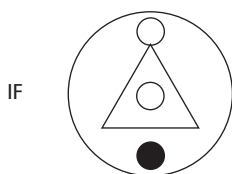
CA – NA – AN – GP – GE – IE – RI – MA – PI

29 Make a six-letter word using only these four letters.

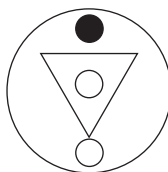
Z G

F I

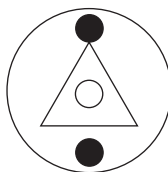
### 30 Comparison



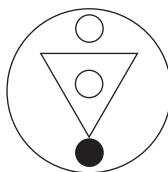
A



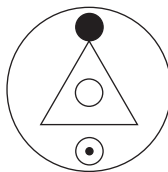
B



C



D



E

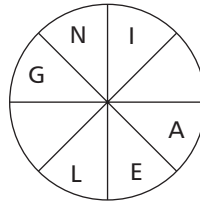
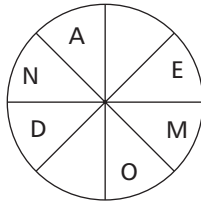
- 31 Insert a word which means the same as the words outside the brackets.

FROZEN RAIN ( . . . ) SUMMON

- 32 What is the value of x?

$$-8 + 6 \times 8 - 2 \times 5 = x$$

- 33 Fill in the blanks, clockwise or anti-clockwise, to form two words which are synonyms.



- 34 What is a GOOGOL?

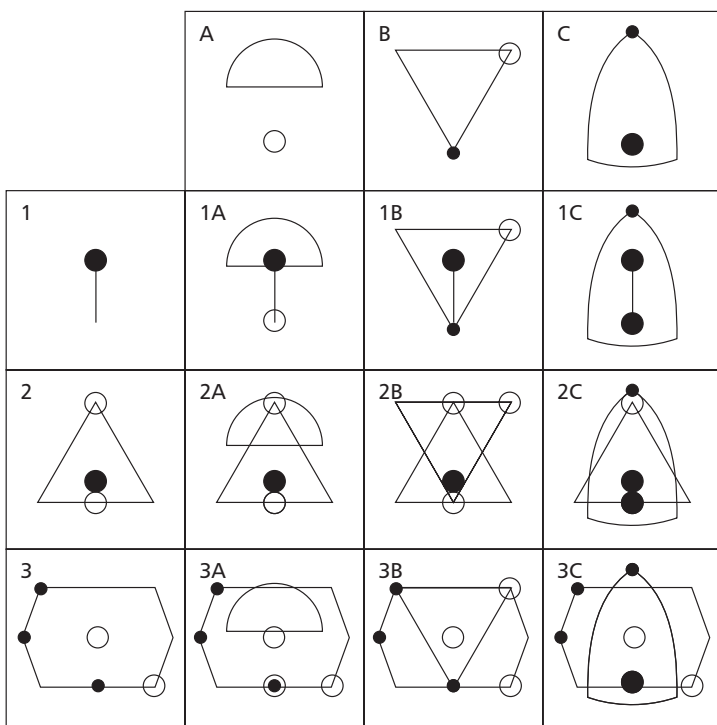
- a) a mathematical term
- b) an albatross
- c) a folk dance
- d) a carrion crow
- e) not a gypsy



### 35 Grid

Each of the nine squares in the grid marked 1A to 3C should incorporate all the lines and symbols that are shown in the squares of the same letter and number immediately above and to the left. For example, 2B should incorporate all the lines and symbols that are in 2 and B.

One of the squares is incorrect. Which one is it?



### 36 Which two words mean the same?

PRETENSION, INDECOROUS, GRATUITOUS, FREE,  
OVERSHADOW, NEFARIOUS

37 Solve the one-word anagram.

GORILLA SET

38 What number should equal the question mark?

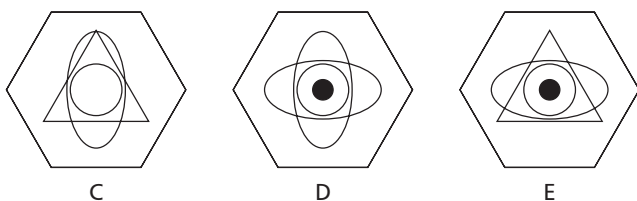
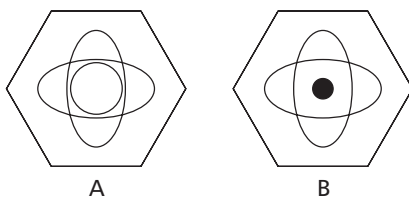
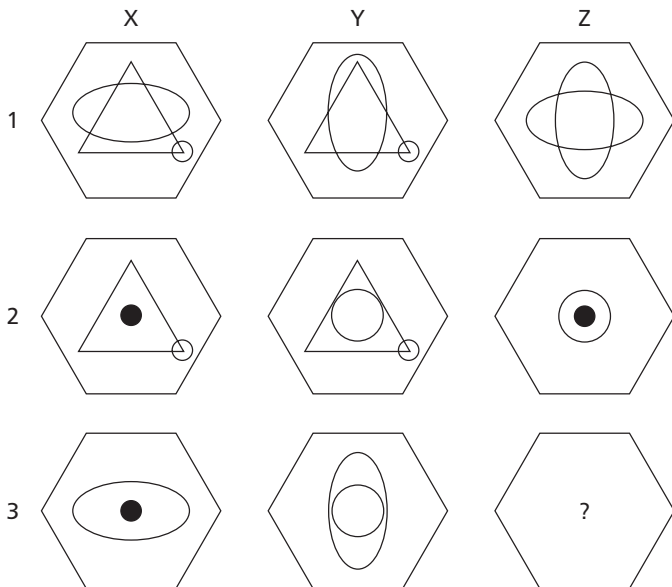
4	2	8	16
6	3	7	14
9	3	8	24
8	4	16	?

39 What number should replace the question mark?

27, 31, ?, 32, 29, 33, 30

# 40 Hexagon

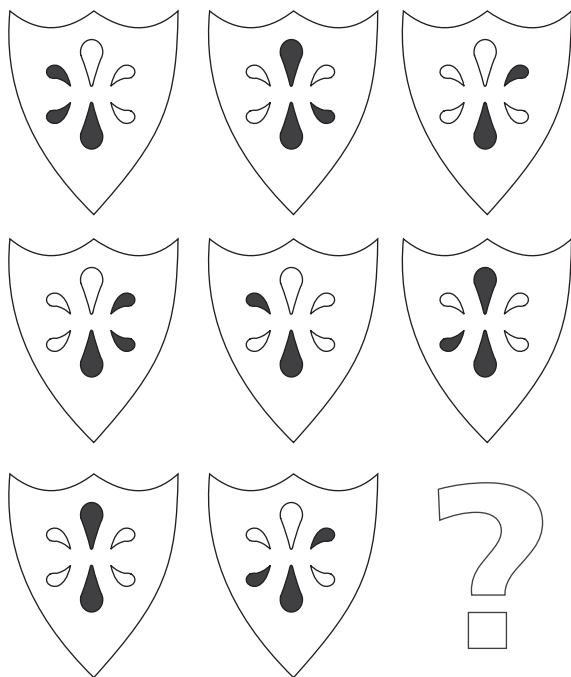
Which hexagon fits the missing space?



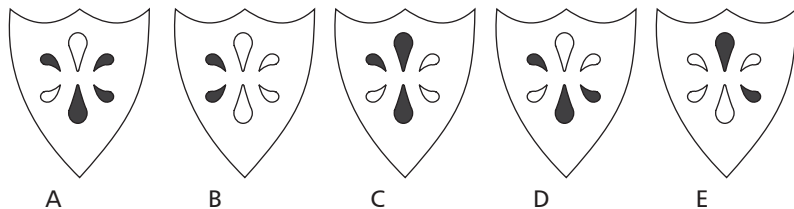
# Test four

- 1 Which is the odd one out?  
CLAVICHORD, SPINET, HARPSICHORD, CLARION,  
ACCORDION
- 2 'SLOW OR FAST ROADS' is an anagram of which familiar  
phrase: 2, 1, 4, 3, 5, which means the opposite of  
verbose?
- 3 586321 is to 268  
as 94783219647 is to ?
- 4 What do the following have in common?  
RHAPSODY IN BLUE  
QUICK ON THE DRAW  
BOXING MATCHES  
WHISKY GALORE  
VENUS FLYTRAP  
QUESTION MARK  
PANTY GIRDLES

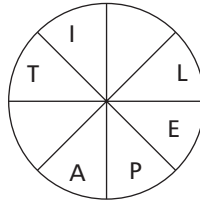
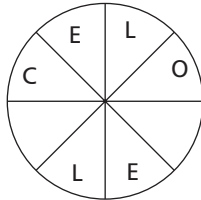
5 Shields



Which shield should replace the question mark?



- 6 Spiral clockwise round one of the circles and anti-clockwise round the other to find two words that have similar meanings.



- 7 LATTICE : WINDOW

Which two words below have the same relationship as the two words above?

- a) portal : gable
  - b) embrasure : chimney
  - c) mansard : roof
  - d) parapet : door
  - e) fascia : floor
- 8 Which word in brackets means the same as the word in capitals?
- INDISCRETION (crudity, sloth, folly, aversion, vacillation)

9 What numbers should replace the question marks?

7	5	4	6
5	8	10	8
6	?	?	7
8	6	7	9

10 What do the following words have in common?

PRECIOUS, CIRCLE, TONE, AUTOMATIC

11 A well-known phrase has had all its vowels removed and has been split into groups of three letters, which are in the correct order. What is the phrase?

KPT HBL LRL LNG

12 What is the missing number?

2	7	6	8	4
1	2	1	9	6
2	5	4	7	8
6	5	3	5	?

13 What comes next?

A, 1A, 111A, 311A, ?

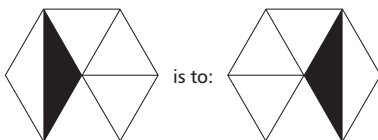
- 14 Complete two magic word squares where the same four words in each square can be read both vertically and horizontally. Clues are given, but in no particular order.

	A		P			
			A			
		W	S			
P	A	S	T	I	M	E
			I		O	
			M			
			E			

Clues:

1. Dense plant
2. Yard or street
3. Stretch of land
4. Moist
5. Someone in addition
6. Figure of worship

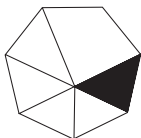
## 15 Comparison



as



is to:



A



B



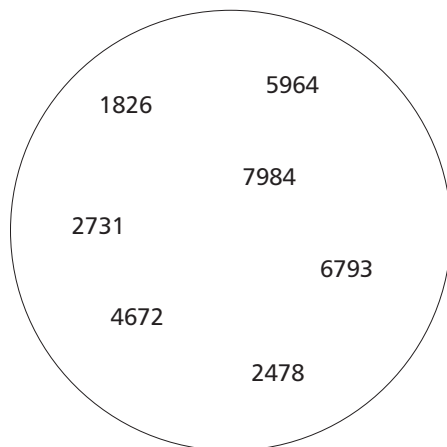
C



16 Which is the odd one out?

SALIFEROUS, EVACUATION, REGULATION,  
EXHAUSTION, INOCULATED, DUODECIMAL

17 Which number is the odd one out?



18 Which two words are most opposite in meaning?

MALICIOUS, KNAVISH, HOPEFUL, SERVILE, PRINCIPLED,  
AWKWARD

- 19 Which other 12-letter weather phrase can be placed in the right-hand column in order to complete the three-letter words reading across?

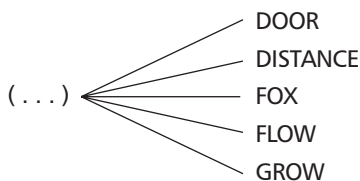
H	A	
I		
G		
H	E	
P	A	
R	U	
E	A	
S		
S	I	
U		
R		
E	L	

(7, 5)

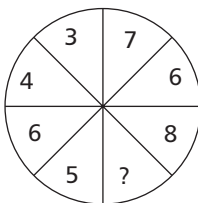
- 20 I strode to Dorset, ate milk and rice in Limerick and bought Edna a beer in Aberdeen. Whom did I meet in Antrim?
- 21 Insert a word that means the same as the words outside the brackets.

SKIN ( . . . . ) CONCEAL

22 Replace the dots with a word to make five new words.



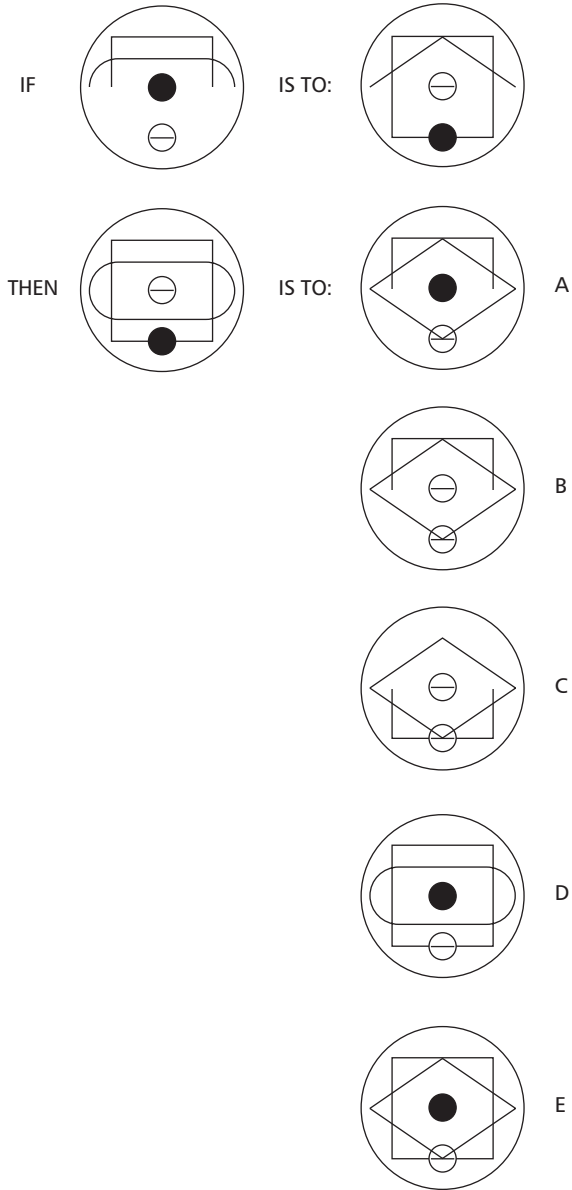
23 Which number should replace the question mark?



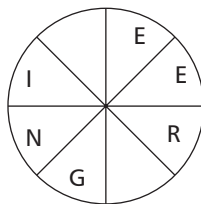
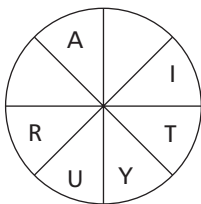
24 What is the name given to a group of HORSES?

- a) husk
- b) haras
- c) mute
- d) rush
- e) sord

## 25 Comparison



- 26 Fill in the blanks, clockwise or anti-clockwise, to form two words that are synonyms.



- 27 What is an ORRERY?

- a) a clockwork model
- b) a Florentine iris
- c) a golden ornament
- d) a museum
- e) a dungeon

- 28 What is the value of x?

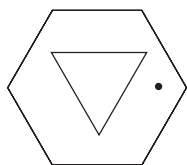
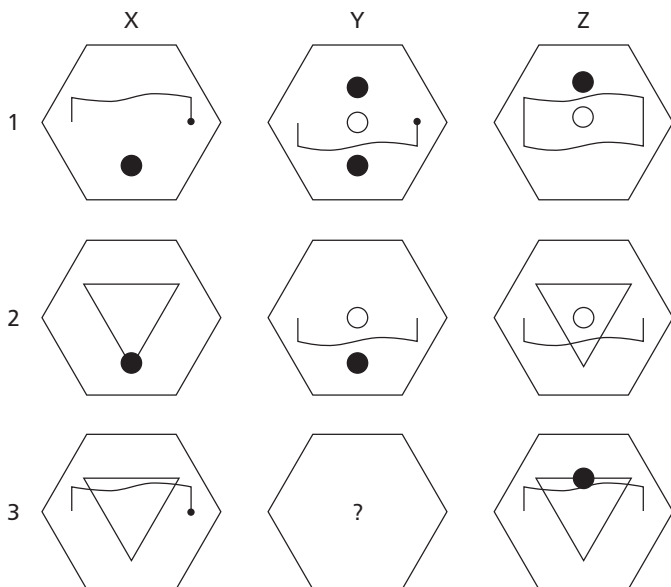
$$\frac{17}{19} \div \frac{3}{38} = x$$

- 29 Which one of these is not an animal?

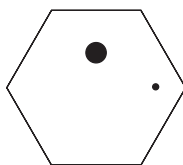
LAWSEE  
GADBER  
DIHRAS  
MACYAN  
ROUGAC

### 30 Hexagon

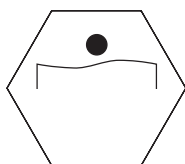
Which hexagon, A, B, C, D or E, fits the missing space?



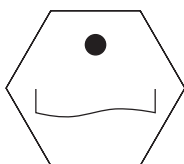
A



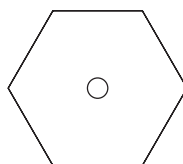
B



C



D



E

31 What number should replace the question mark?

16		3
	72	
3		4

17		8
	160	
2		1

14		8
	?	
4		3

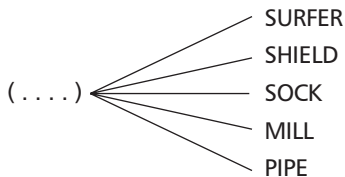
32 Solve the one-word anagram.

NO MORE STARS

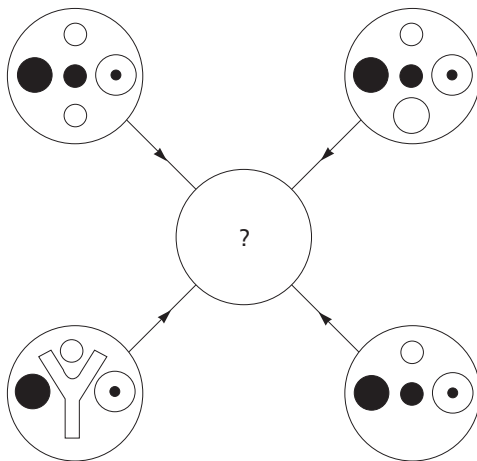
33 Which two words mean the same?

ADVOCATE, LAMPOON, MEDIATE, DEFAME, PROJECT,  
ARBITRATE

34 Replace the dots with a word to make five new words.



### 35 Symbols

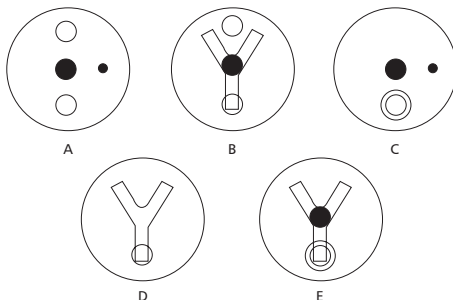


Each line and symbol that appears in the four outer circles, above, is transferred to the centre circle according to these rules:

if a line or symbol occurs in the outer circles:

- |          |                            |
|----------|----------------------------|
| once:    | it is transferred          |
| twice:   | it is possibly transferred |
| 3 times: | it is transferred          |
| 4 times: | it is not transferred      |

Which of the circles A, B, C, D or E, shown below, should appear at the centre of the diagram, above?

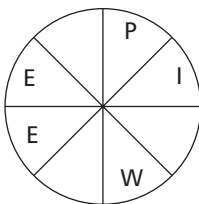




36 What is a HARBINGER?

- a) a flowering shrub
- b) a type of boat
- c) a messenger
- d) a cloak
- e) a drink

37 Fill in the blanks, clockwise or anti-clockwise, to complete the words.



38 What is the value of x?

$$3 - 6 \times 7 + 6 \div 4 = x$$

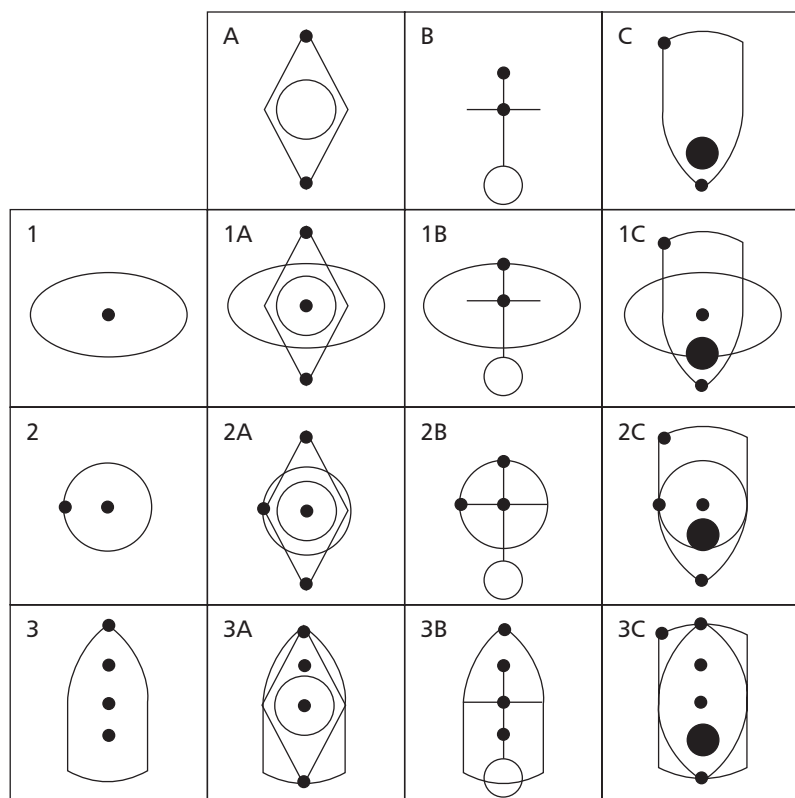
39 Place three two-letter bits together to make an ANIMAL.

EY - CK - DO - AT - RR - ES - NK - FE - JA

#### 40 Grid

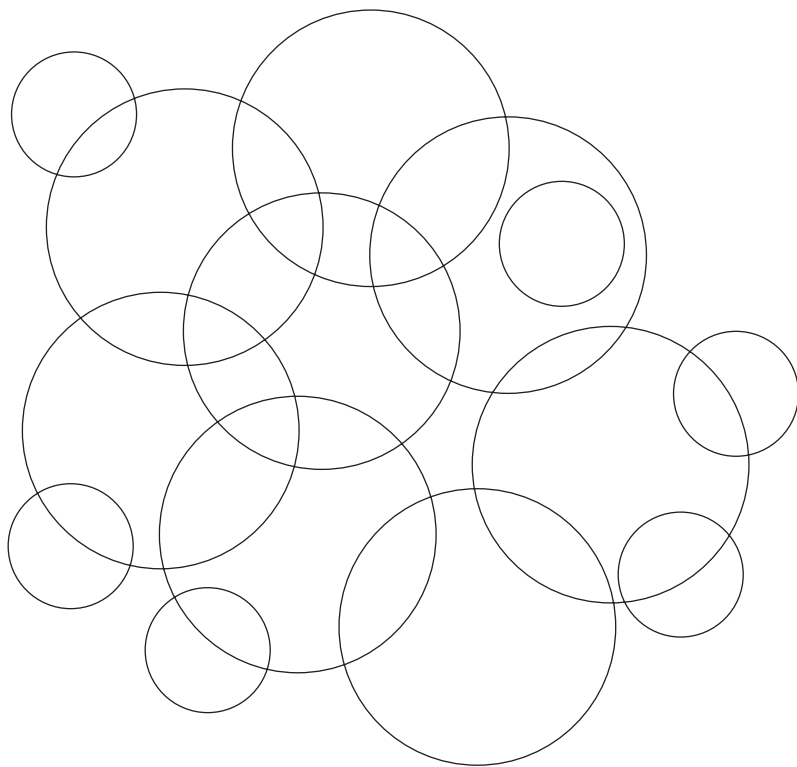
Each of the nine squares in the grid marked 1A to 3C should incorporate all the lines and symbols that are shown in the squares of the same letter and number immediately above and to the left. For example, 2B should incorporate all the lines and symbols that are in 2 and B.

One of the squares is incorrect. Which one is it?



# Test five

1 How many circles appear below?



- 2 Complete the six words so that two letters are common to each word. That is, reading across, the same two letters that end the first word also start the second word, etc. The two letters that end the sixth word are also the first two letters of the first word, to complete the circle.

.. A B ..

.. N G ..

.. I E ..

.. N D ..

.. A C ..

.. S S ..

- 3 You have accidentally left the plug out of the bath and are attempting to fill the bath with both taps full on. The hot tap takes three minutes to fill the bath and the cold tap two minutes, and the water empties through the plug hole in six minutes. In how many minutes will the bath be filled?

- 4 Sequence



What continues the above sequence?



A



B



C

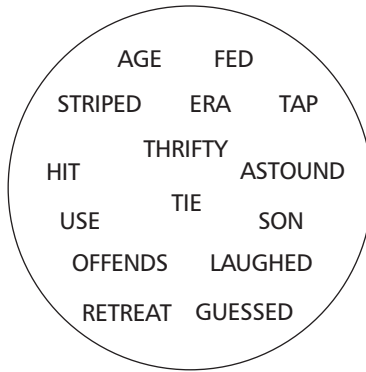


D

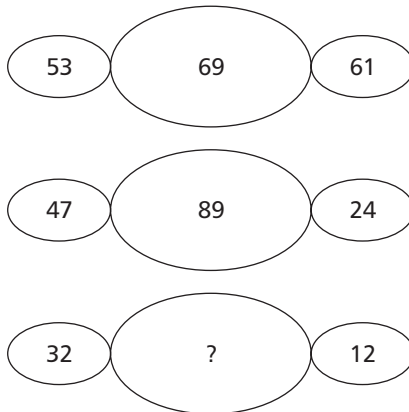


E

5 Which word is the odd one out?



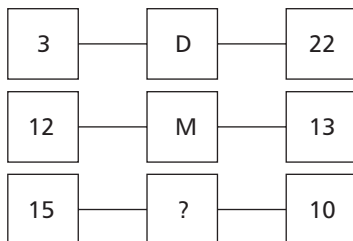
6 What number should replace the question mark?



7 What do these words have in common?

ABUNDANCE, ALLEVIATE, UNTRUTHS, PROCAINE,  
CHAMBER

8 What letter should replace the question mark?

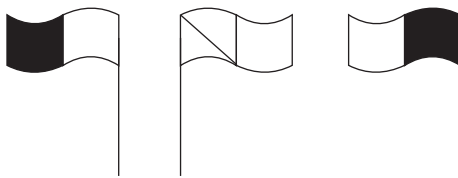


9 Solve the anagram in brackets to complete the quotation correctly. You are looking for a two-word answer (5, 6).

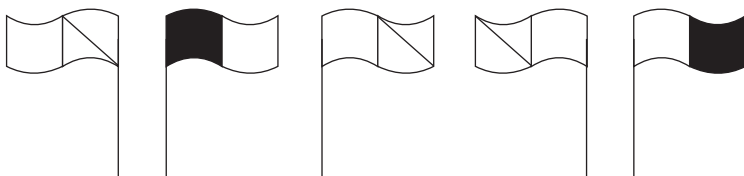
Clue: convenience

The (FUTILE SLOTH) is the basis of western civilization (Alan Coult).

10 Sequence



What comes next in the above sequence?



A

B

C

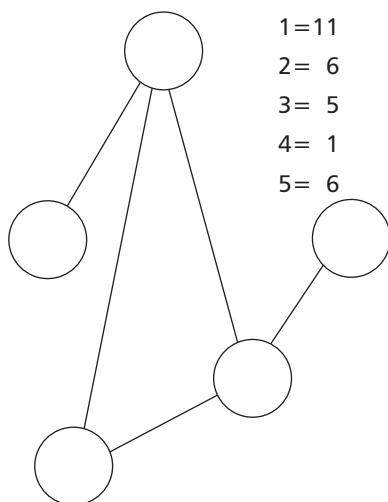
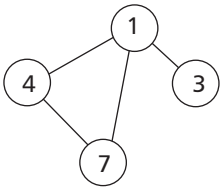
D

E

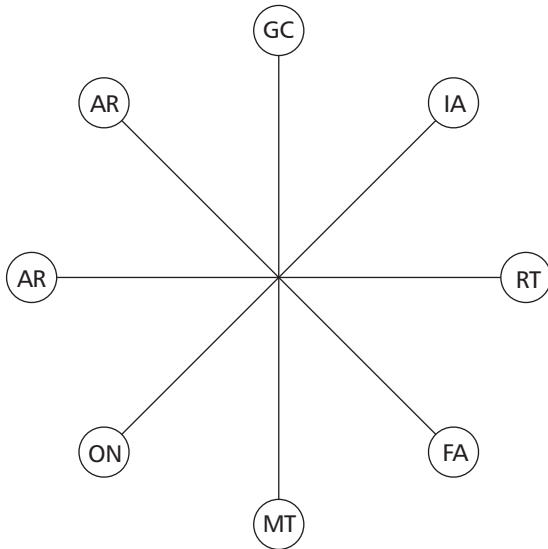
- 11 Insert the numbers 1–5 in the circles so that for any particular circle the sum of numbers in the circles connected directly to it equals the value corresponding to the number in that circle, as given in the list.

Example:

$1 = 14 \ (4 + 7 + 3)$   
 $4 = 8 \ (7 + 1)$   
 $7 = 5 \ (4 + 1)$   
 $3 = 1$



- 12 Pick a letter from each circle and, reading anti-clockwise, spell out two words that are synonyms. Each word starts in a different circle.



- 13 Create two words using the following ten letters each once only:

Clue: easier tariff

MXERPLAITS

- 14 MUSIC: COMPOSE  
DEVICE: a) use  
b) create  
c) construct  
d) invent  
e) change



- 15 Find two of the three words that will form an anagram synonymous with the word remaining.

Example: LEG – MEEK – NET = MEEK – GENTLE (LEG, NET)

TRUCE – NONE – MEET

- 16 What number continues this sequence?

987, 251, 369, 872, 513, ?

- 17 Move horizontally and vertically, but not diagonally, to spell out a 12-letter word. You must provide the missing letters.

E	F	O	
S	O	N	P
	I	A	L

- 18 What comes next in this sequence?

7, 8, 9, 10, 12, 14, 16, 20, 21, 28, ?

- 19 Which two words are closest in meaning?

EXPLORER, VAGRANT, MINSTREL, RESIDENT, SOLDIER, ITINERANT

- 20 Change one letter only from each word to find a familiar phrase:

OUT OF IRE

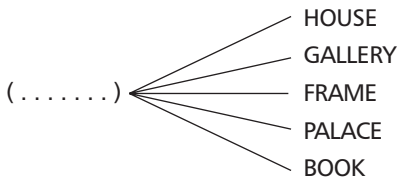
21 Which one of these is not a vegetable?

ROCART  
EYECLR  
ROMRAW  
TOPAOT  
XESTTE

22 What number should replace the question mark?

8		7	9		6	10		9
	72			54			?	
11		2	12		3	2		2

23 Replace the dots with a word to make five new words.

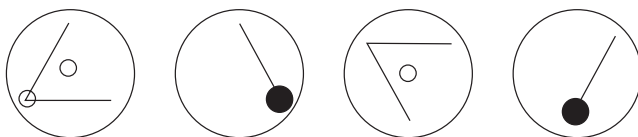
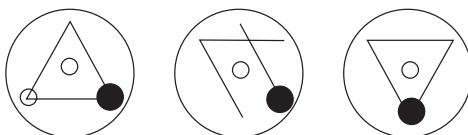
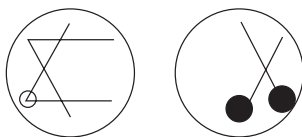
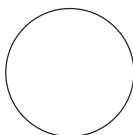
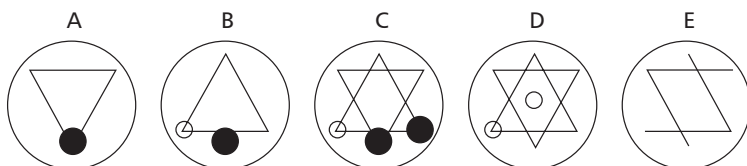


24 What is the name given to a group of BUTLERS?

- a) blast
- b) host
- c) draught
- d) morbidity
- e) staff

## 25 Circles

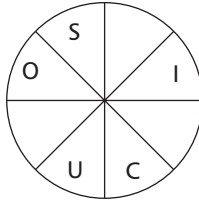
Which of A, B, C, D or E fits into the blank circle to carry on a logical sequence?



## 26 What is a CURRICLE?

- a) a vehicle
- b) a boat
- c) a curtain
- d) French dressing
- e) a vegetable

- 27 Fill in the blanks to complete the word, clockwise or anti-clockwise.



- 28 Insert a word that means the same as the words outside the brackets.

BE EVASIVE ( . . . . . ) BUSHES

- 29 Make a six-letter word using only these four letters.

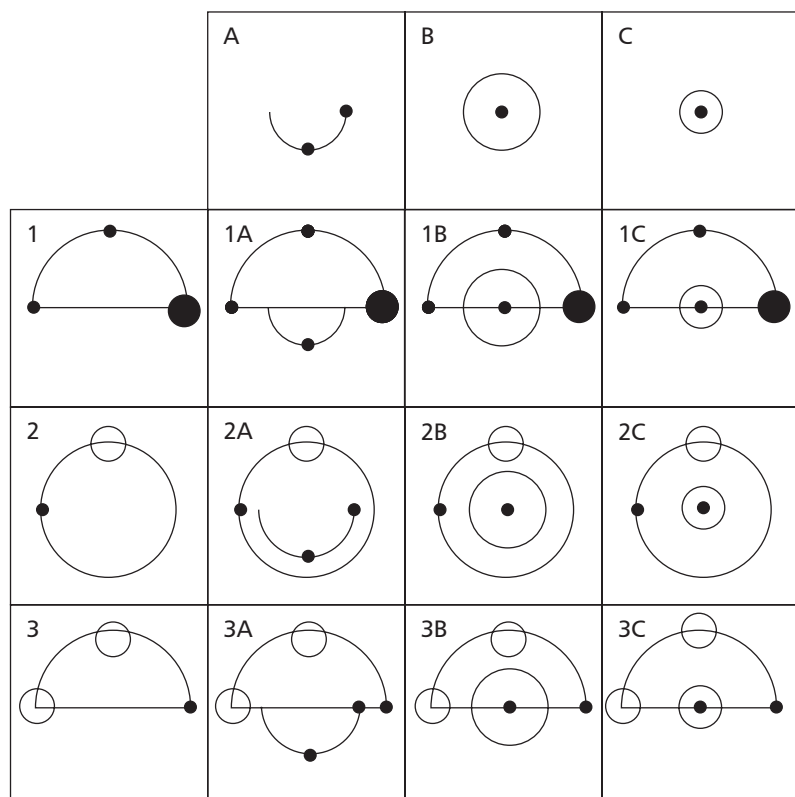
L O

G I

### 30 Grid

Each of the nine squares in the grid marked 1A to 3C should incorporate all the lines and symbols that are shown in the squares of the same letter and number immediately above and to the left. For example, 2B should incorporate all the lines and symbols that are in 2 and B.

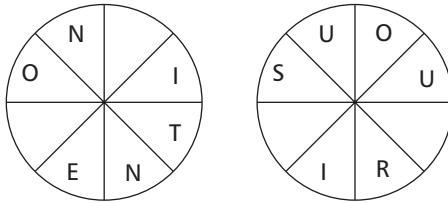
One of the squares is incorrect. Which one is it?



31 Which word means the same as NEGATORY?

- a) fallacious
- b) prodigious
- c) trifling
- d) restraining

32 Fill in the blanks to form two words which are synonyms, clockwise or anti-clockwise.



33 What is the value of x?

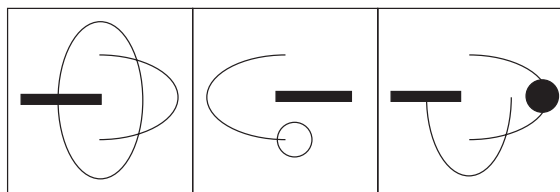
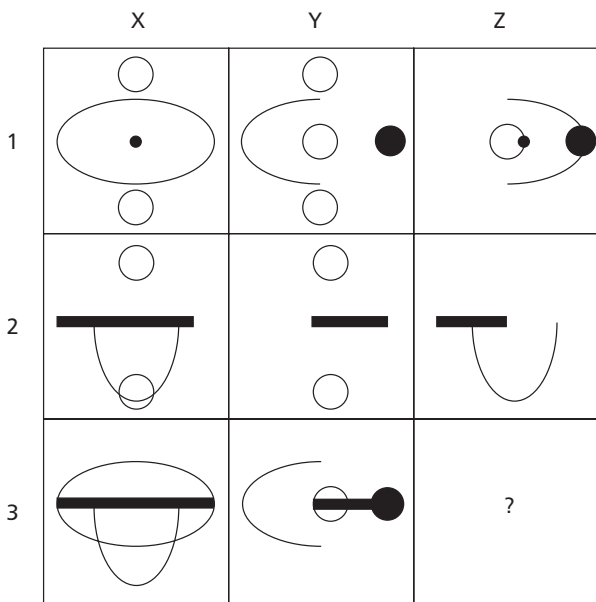
$$-\frac{7}{9} \div -\frac{5}{27} = x$$

34 What is always associated with FAIENCE?

- a) pottery
- b) fairies
- c) zinc
- d) ingots
- e) ghosts

### 35 Missing tile

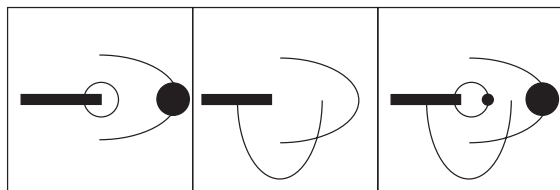
Which of A–F is the missing tile?



A

B

C



D

E

F

36 What is the value of x?

$$4 \times 3 - 70 \div 10 + 6 = x$$

37 What two words mean the opposite?

CONTRADICT, CALUMNY, DISINGENUOUS,  
DETESTATION, INFAMOUS, CANDID

38 Place three two-letter bits together to make a PLANT.

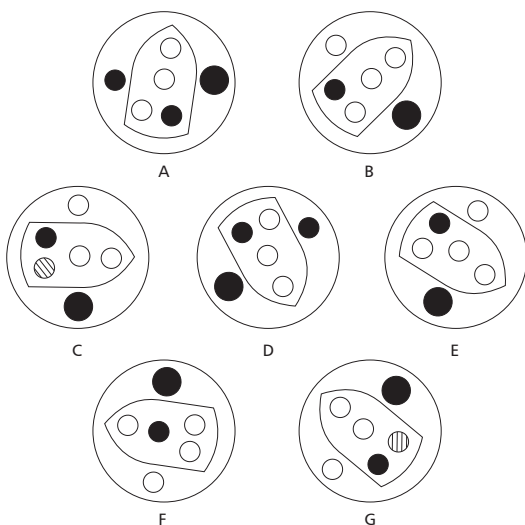
CH – LL – CL – OR – BR – MA – ER – IC – OV

39 Solve the one-word anagram.

NINE PUGS

40 Odd one out

Which of these is the odd one out?





# Test six

- 1 Pair a word in list A with its related adjective in list B.

**List A**

FLUVIAL

VERNAL

PSITTACINE

CORVID

**List B**

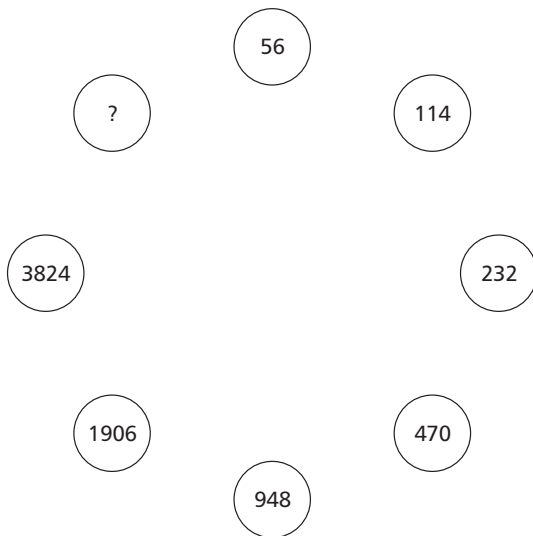
ROOK

PARROT

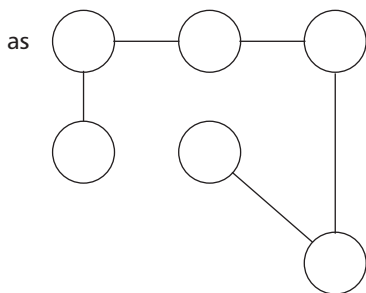
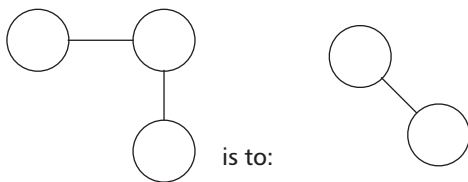
RIVER

SPRING

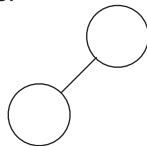
- 2 What number should replace the question mark?



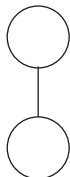
### 3 Comparison



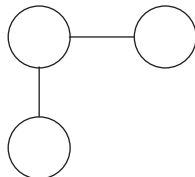
is to:



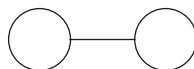
A



B



C



D

- 4 63 : 369  
47 : 7411  
86 : ?

- 5 Add one letter, not necessarily the same letter, to each word at the front, end or middle to find two words that are synonyms.

RUSH, BEAK

- 6 Start at one of the corner squares and spiral clockwise round the perimeter to spell out a nine-letter word and finish at the centre square. You must provide the missing letters.

R	E	
A	R	
C	E	K

- 7 Which number comes next in the following sequence?

53472, 2435, 342, ?

- 8 Which of the following is not an anagram of an animal?

BRISK PONG

PUNCH KIM

RED OPAL

MOMS HOUR

FAB FOUL

- 9 What letter completes this sequence?

A B D O P Q ?

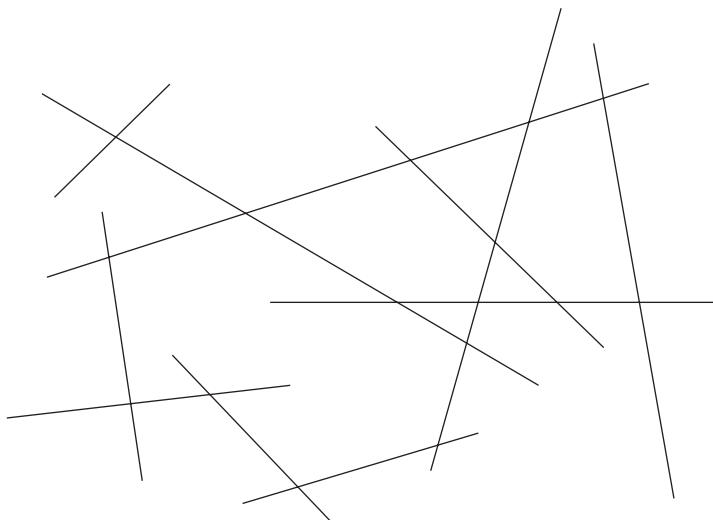
- 10 Which word in brackets means the same as the word in capitals?

PROGENY (skill, lineage, movement, progress, vocation)

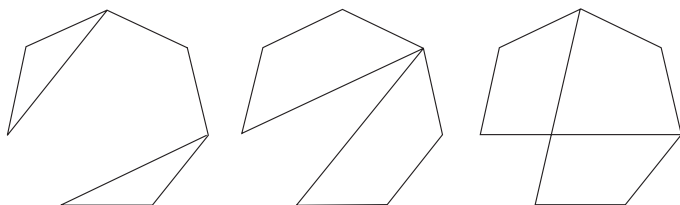
- 11 Which three words can be inserted so that the phrase is palindromic, ie it reads the same backwards and forwards?

A DOG! . . . . . A PAGODA

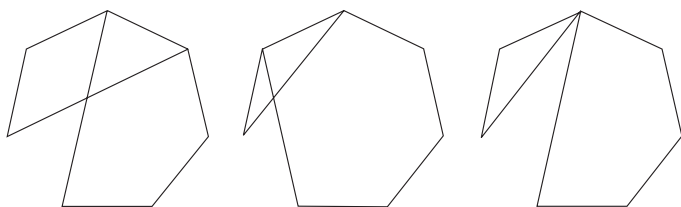
- 12 How many lines appear below?



### 13 Sequence



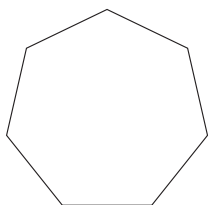
What comes next in the above sequence?



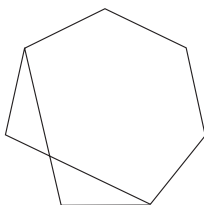
A

B

C



D



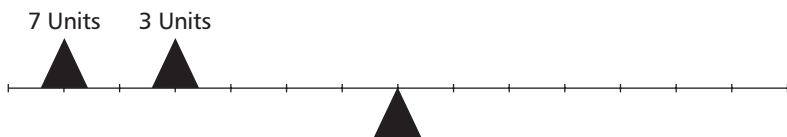
E

- 14 Below are eight CARING words. Take one letter from each of the eight words in turn to spell out a ninth CARING word.

Clue: dependable

FERVENT, CORDIAL, DOTING, DEVOTED, ATTACHED,  
FOND, AMOROUS, LOVING

15

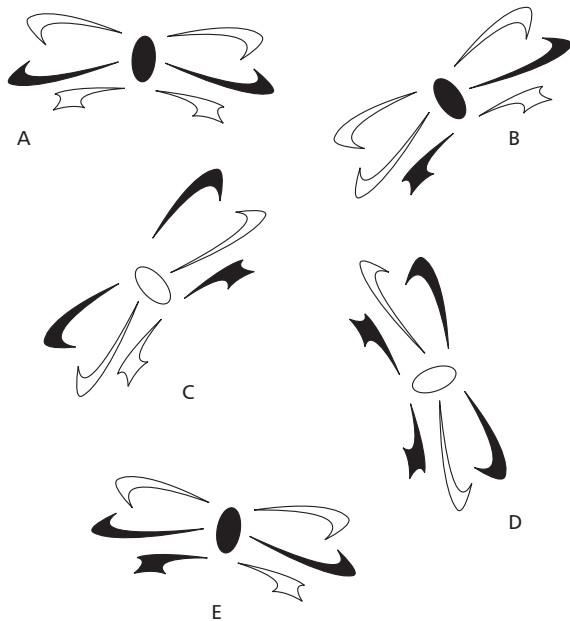


You have a range of weights available from 1–10 units. They are all single weights. Which one should you use to balance the scale, and where should you place it?

16 OLD ELASTIC is an anagram of which 10-letter word?

17 Odd one out

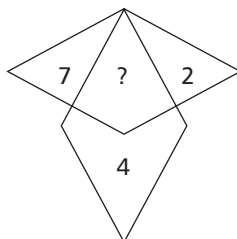
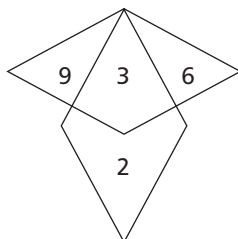
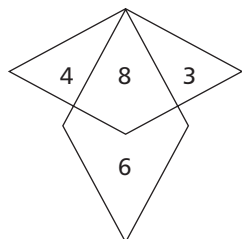
Which is the odd one out?



- 18 Find the phrase that has been hidden by removing the initial letter of each word, then removing the space between them.

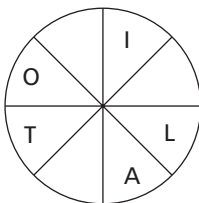
NHEEVEL

- 19 What number should replace the question mark?



- 20 PERIGEE : APOGEE  
PERIHELION : a) azimuth  
b) elliptic  
c) orrery  
d) nadir  
e) aphelion

- 21 Fill in the blanks, clockwise or anti-clockwise, to complete the word.



22 Which two words mean the same?

VERBOSE, MERCIFUL, CONCORDANT, MOMENTOUS,  
MENIAL, PROLIX

23 Place three two-letter bits together to make a vegetable.

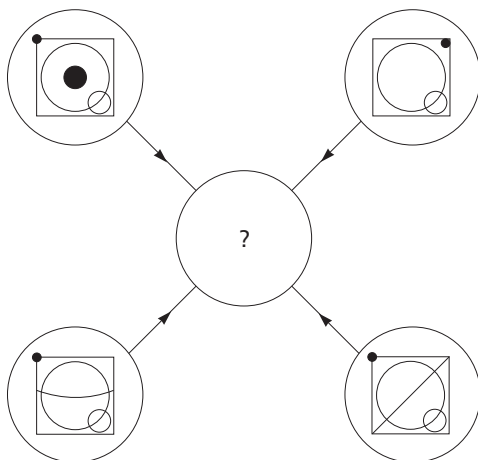
RA – EN – LE – RI – CI – DI – CE – VE – SH

24 What is a FERRULE?

- a) a metal band
- b) a circus wheel
- c) a window
- d) a funeral
- e) rusty



## 25 Symbols

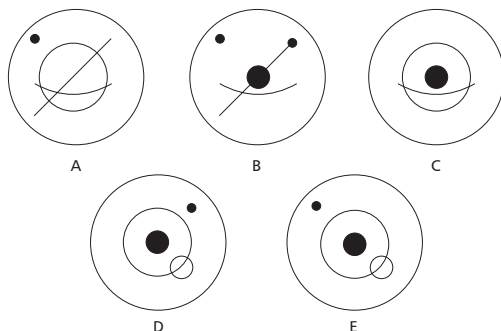


Each line and symbol that appears in the four outer circles, above, is transferred to the centre circle according to these rules:

if a line or symbol occurs in the outer circles:

- |          |                            |
|----------|----------------------------|
| once:    | it is transferred          |
| twice:   | it is possibly transferred |
| 3 times: | it is transferred          |
| 4 times: | it is not transferred.     |

Which of the circles A, B, C, D or E, shown below, should appear at the centre of the diagram, above?



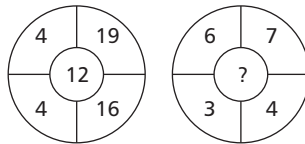
26 Place two three-letter bits together to make a dog.

TER – ZOE – BEA – SET – IER – GLI – BAS – BOR

27 What number should replace the question mark?

6	4	4	22
4	3	3	13
1	5	4	21
2	6	7	?

28 What number should replace the question mark?



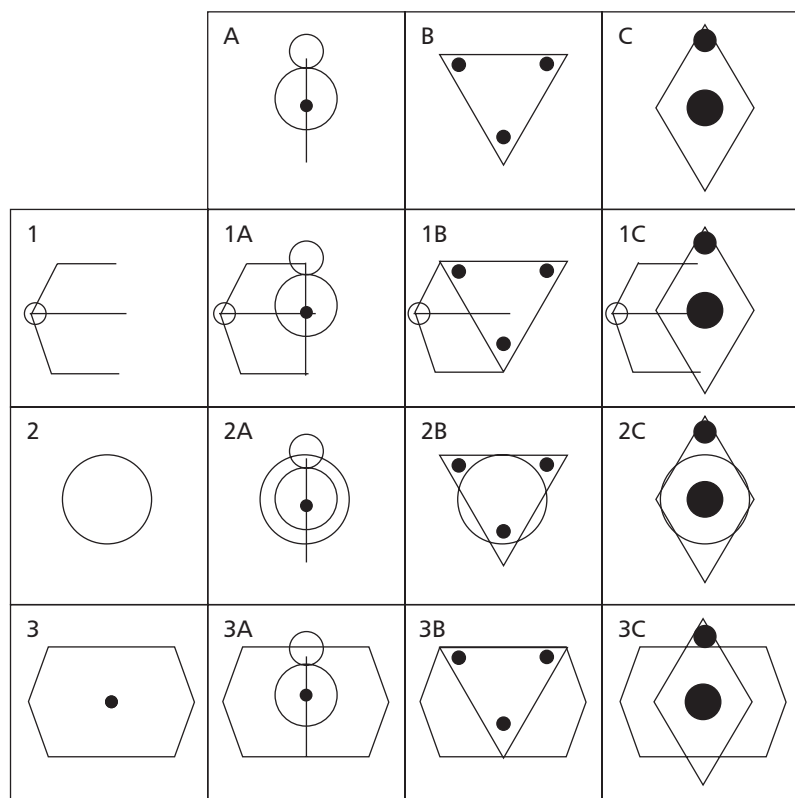
29 What is the name given to a group of KITTENS?

- a) clutch
- b) labour
- c) swarm
- d) kindle
- e) sounder

### 30 Grid

Each of the nine squares in the grid marked 1A to 3C should incorporate all the lines and symbols that are shown in the squares of the same letter and number immediately above and to the left. For example, 2B should incorporate all the lines and symbols that are in 2 and B.

One of the squares is incorrect. Which one is it?



31 What is always associated with GENOA?

- a) a bustle
- b) haberdashery
- c) an eye glass
- d) a sail
- e) a short cloak

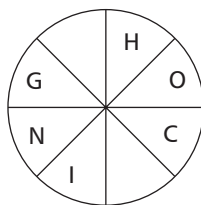
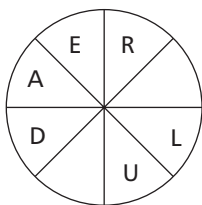
32 Solve the one-word anagram.

IRON COPS

33 What number should replace the question mark?

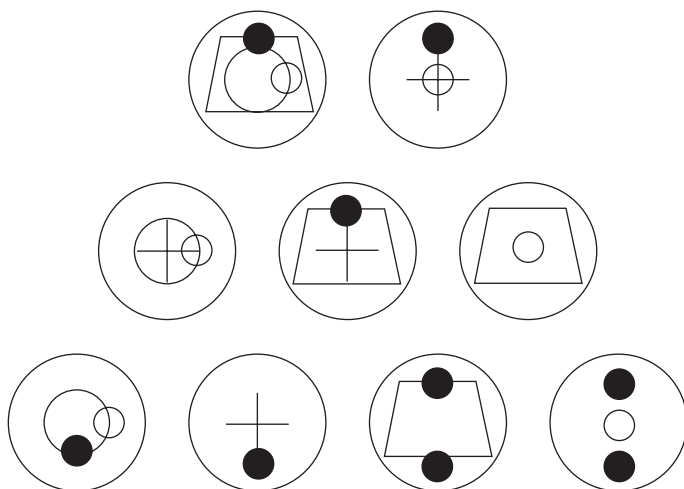
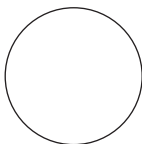
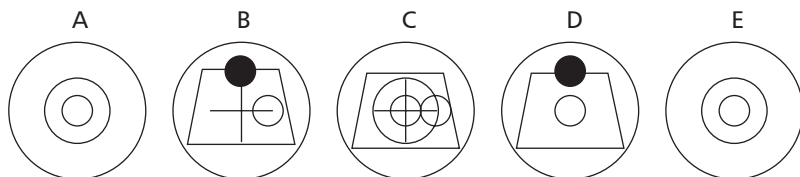
10, 1, 9, 6, 8, 11, 7, ?

34 Fill in the blanks, clockwise or anti-clockwise, to form two words that are synonyms.



### 35 Circles

Which of A, B, C, D or E fits into the blank circle to carry on a logical sequence?



36 What number should replace the question mark?

4		12
	64	
8		4

3		9
	216	
3		12

20		9
	?	
6		2

37 Which one of these is not a flower?

ALEZAA  
SUCROC  
VILSAA  
TEVOIL  
TRYLUS

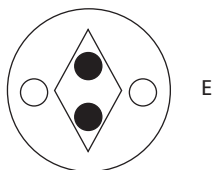
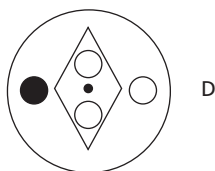
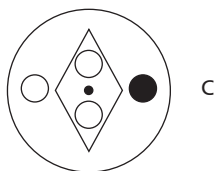
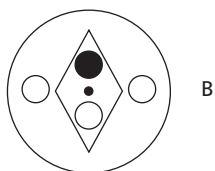
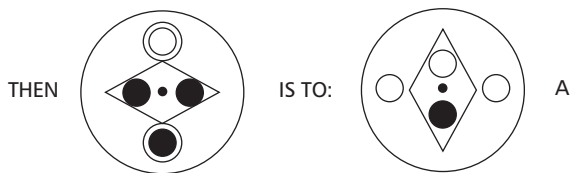
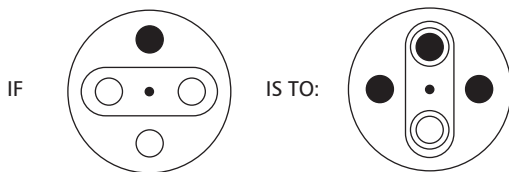
38 Insert a word that means the same as the words outside the brackets.

STINGY ( . . . ) AVERAGE

39 Solve:

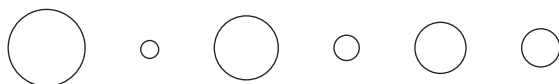
$$-6 + (7 \times 8) - 3 \div 2 + 19 = x$$

# 40 Comparison

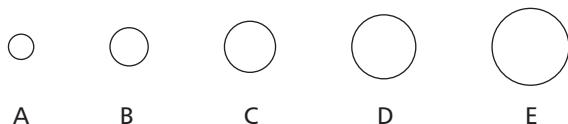


# Test seven

## 1 Sequence



What comes next in the above sequence?



- 2 Which other sport-related phrase can be placed in the right-hand column reading downwards in order to complete the six three-letter words reading across? The phrase you are looking for has two words (8, 4).

A		
C	U	
T	E	
I		
O	A	
N		
R	A	
E		
P	E	
L		
A	S	
Y		



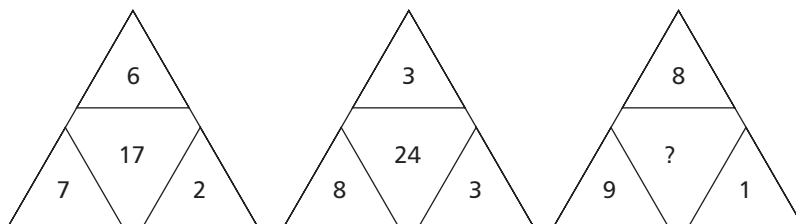
- 3 Which word continues this sequence?

COUNTERFEIT, FLOUNDERING, ENCOUNTERED,  
SUBJOINDERS

Is it: viscountess, dumbfounded or preannounce?

- 4 What number should replace the question mark?

Clue: think laterally



- 5 Which of the following is not an anagram of 'intelligence test'?

TESTING ELECT LINE  
TESTING CLIENTELE  
TIES GENTLE CLIENT  
LET TESTING CLIENT  
GET LITTLE INCENSE  
ELICIT GENTLE NETS

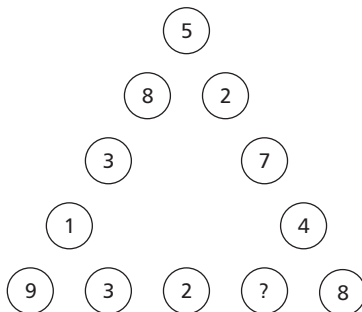
- 6 Which of the numbers, from 1 to 121, appears in the grid twice, and which number is missing?

61	102	30	115	80	32	73	110	36	89	18
90	35	119	74	117	83	48	26	11	95	50
49	113	19	7	101	41	15	3	94	44	13
85	14	25	120	53	109	43	23	29	81	6
37	99	98	2	108	78	62	34	56	69	40
60	10	24	93	72	22	107	51	1	118	28
33	75	92	47	104	86	114	17	76	105	21
82	4	27	116	52	12	84	71	111	63	8
91	59	16	68	39	66	96	25	100	70	38
20	42	79	9	55	64	77	5	54	88	45
67	103	46	97	31	87	106	58	121	65	112

- 7 Which word in brackets is opposite in meaning to the word in capitals?

GRUESOME (enjoyable, appealing, wholesome, young, virtuous)

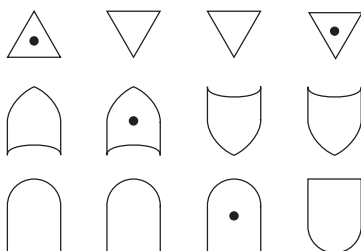
- 8 What number should replace the question mark?



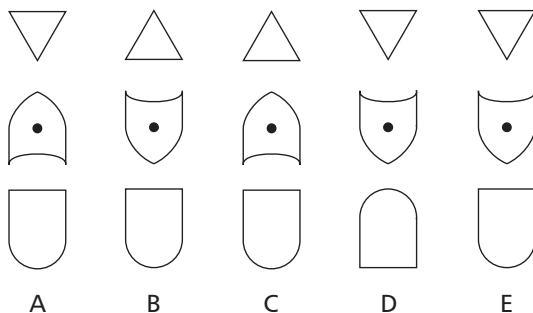
9 Solve the clues to find four six-letter words. The same three letters are represented by XYZ in each word.

- XYZ... Clue: bovine animals  
 .XYZ... Clue: attack with severe criticism  
 ..XYZ. Clue: find  
 ...XYZ Clue: type of grape

10 Sequence



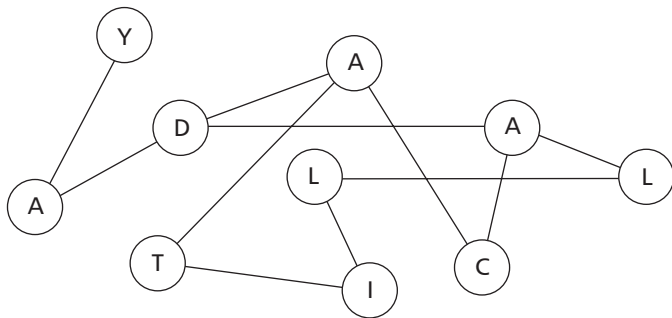
What comes next in the above sequence?



11 Change CAPRICORN to LIBRA. Each word repeats several letters from the word above it as indicated by \*.

C A P R I C O R N  
 \* \* \* \* \*  
 . . \* \* \* . .  
 . . \* \* \* .  
 L I B R A

- 12 Find the starting point and follow the correct route from circle to circle to spell out a phrase (4, 2, 1, 3)



- 13 Insert a three-letter word that will complete the first word and start the second.

SEA ( . . . ) NET

- 14 A number of antonyms of the keyword are shown. Take one letter from each of the antonyms, in order, to spell out another antonym of the keyword.

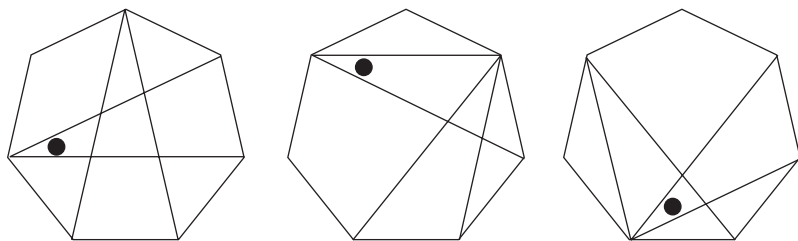
KEYWORD : OMNIPOTENT

ANTONYMS: INFERIOR, IMPOTENT, POWERLESS,  
VULNERABLE, FRAIL, INCAPABLE

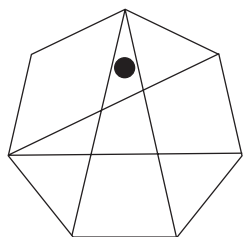
- 15 SUNDAY  
MONDAY  
WEDNESDAY  
SATURDAY  
WEDNESDAY

Which day comes next?

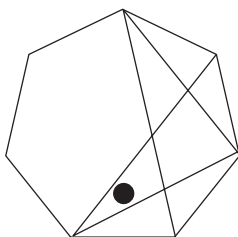
16 Sequence



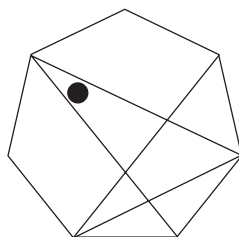
What comes next in the above sequence?



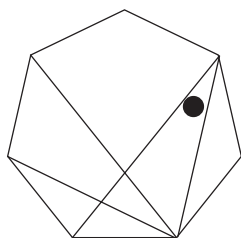
A



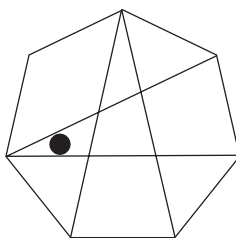
B



C



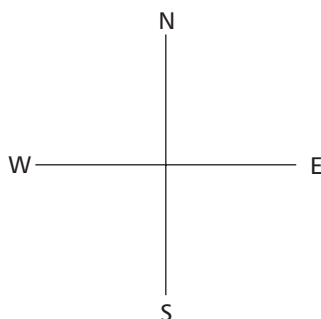
D



E

- 17 Visit each square once only and finish at the centre square to collect the treasure. 1E means one square East, 2W means two squares West.

1 E 1 S	1 S 1 W	2 W 2 S
2 E 1 S	<b>T</b>	1 S 1 W
1 E 2 N	2 N 1 E	2 W 2 N



- 18 Solve each anagram to find two phrases that are spelt differently but sound alike, as in 'a name', 'an aim'.

WOKEN CANON INTO NOON

- 19 The grid contains 25 different letters of the alphabet. What is the longest word that can be found by starting anywhere and working from square to square horizontally, vertically and diagonally, and not repeating a letter?

Clue: Significantly

Q	U	J	X	F
W	N	O	E	K
S	V	D	C	R
G	I	Y	A	H
P	M	L	B	T

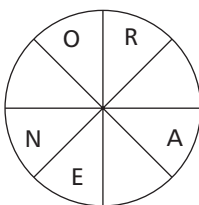
20 What do the following have in common?

TOTAL ECLIPSE

A PIG IN A POKE

WHITE ADMIRALS

21 Fill in the blanks, clockwise or anti-clockwise, to complete the word.



22 Which word means the same as ESOTERIC?

- a) pristine
- b) misshapen
- c) gibbous
- d) secret

23 What number should replace the question mark?

3		6
	42	
7		2

7		4
	80	
4		2

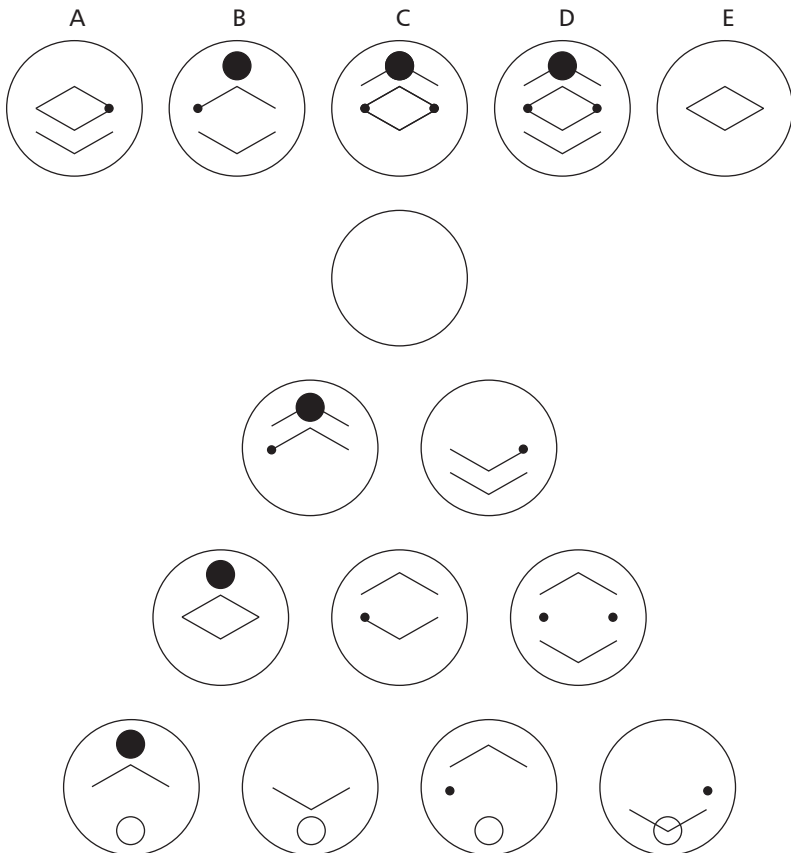
14		2
	?	
8		11

24 Solve the one-word anagram.

IT CLAW'D

## 25 Circles

Which of A, B, C, D or E fits into the blank circle to carry on a logical sequence?





26 What number should replace the  $\times$  ?

64	8	2	6
21	7	1	2
30	5	1	5
24	4	2	X

27 What is a GIGOT?

- a) a dancer
- b) a leg of mutton
- c) a rogue
- d) a measure
- e) a ravine

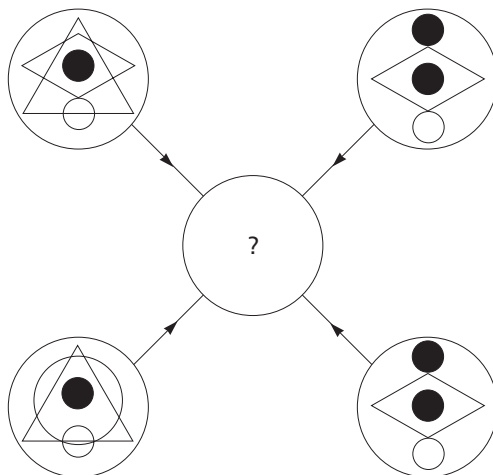
28 Place two three-letter bits together to make a FISH.

KIP – ICY – PLA – MIN – PEN – NOW – HAD – DOK

29 Which two words mean the opposite?

LICENTIOUS, CARP, FITFUL, CIRCUMSPECTION,  
APPROVE, DEMEANOUR

### 30 Symbols

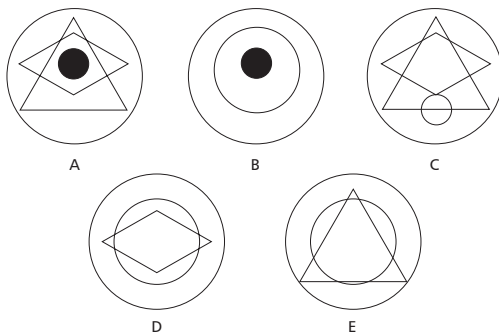


Each line and symbol that appears in the four outer circles, above, is transferred to the centre circle according to these rules:

if a line or symbol occurs in the outer circles:

- once: it is transferred
- twice: it is possibly transferred
- 3 times: it is transferred
- 4 times: it is not transferred.

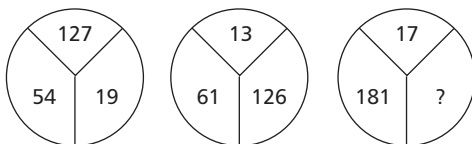
Which of the circles A, B, C, D or E, shown below, should appear at the centre of the diagram, above?



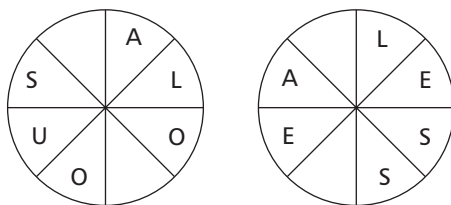
31 What is always associated with HASLET?

- a) food
- b) drink
- c) a machine
- d) a necklace
- e) a farm appliance

32 What number is to replace the question mark?



33 Fill in the blanks, clockwise or anti-clockwise, to form two words that are synonyms.



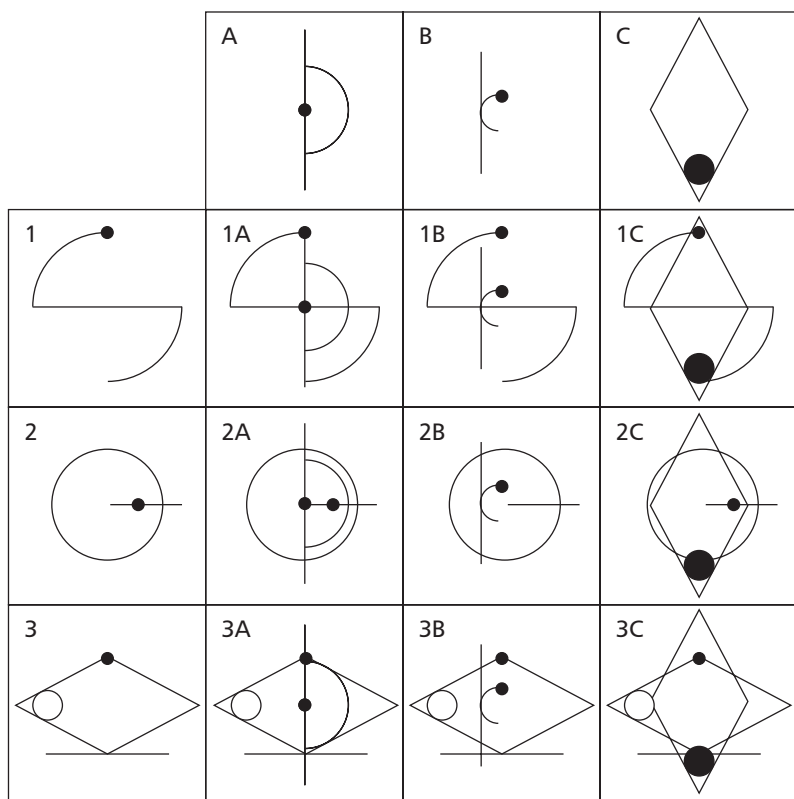
34 Make a six-letter word using only these four letters.

LY  
GO

### 35 Grid

Each of the nine squares in the grid marked 1A to 3C should incorporate all the lines and symbols that are shown in the squares of the same letter and number immediately above and to the left. For example, 2B should incorporate all the lines and symbols that are in 2 and B.

One of the squares is incorrect. Which one is it?



36 Insert a word that means the same as the words outside the brackets.

NOBLE ( . . . . ) KIND

37 What number should replace the question mark?

7, 14, 8, 10, 9, 6, 10, ?

38 What is the name given to a group of LARKS?

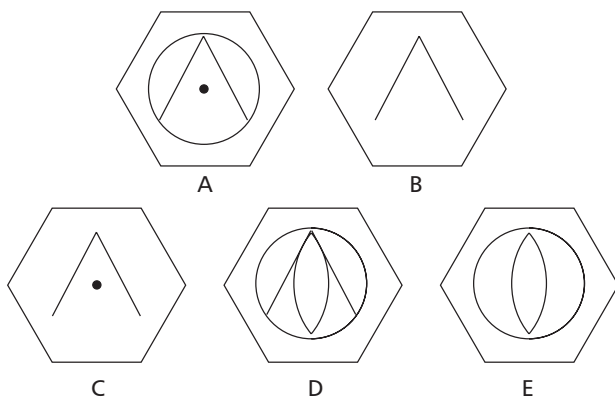
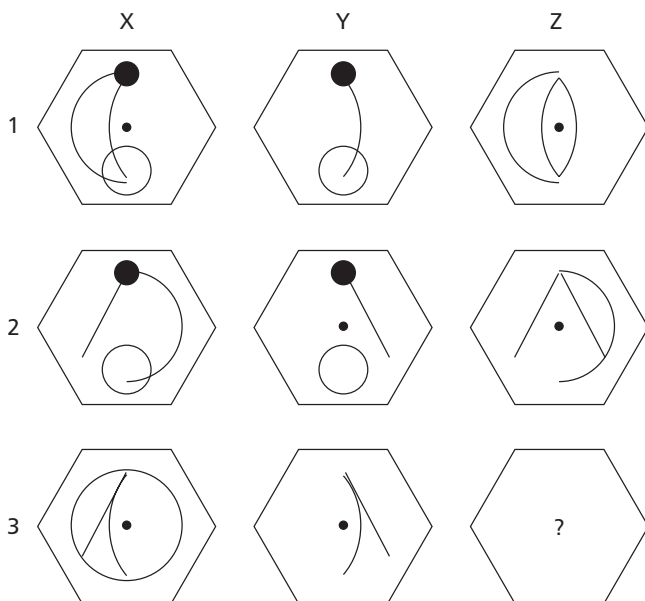
- a) exaltation
- b) badelynge
- c) flock
- d) pitying
- e) run

39 Which one of these is not a musical instrument?

NILOIV  
MATBAN  
THIZRE  
LAMYCB  
DDIEFL

# 40 Hexagon

Which hexagon, A, B, C, D or E, fits the missing space?

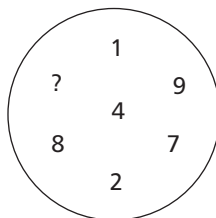
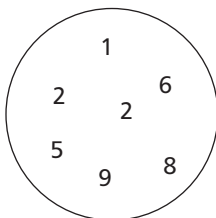
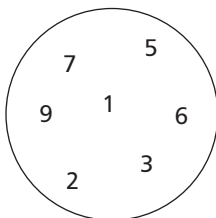
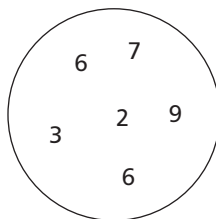
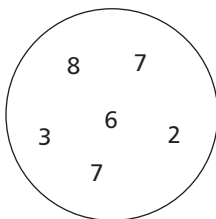
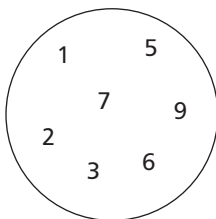


# Test eight

- 1 Only one set of letters below can be arranged into a five-letter word. Can you find the word?

KIRCE  
EMRUD  
ONTDI  
ENCID

- 2 What number should replace the question mark?



- 3 Solve the cryptic clue below. The answer is a 10-letter word anagram contained within the clue.

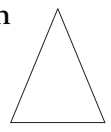
INCLEMENT  
WEATHER  
SPOILT  
MINOR ARTS

- 4 What famous building can be inserted into the bottom line to complete nine three-letter words reading downwards?

T	O	W	E	R	O	F	L	O	N	D	O	N
	B	A	A		W	E	A			I	D	I

- 5 In a game of 10 players lasting for 30 minutes, five reserves substitute each player, so that all players, including reserves, are on the pitch for the same length of time. How long is each player on the pitch?

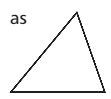
- 6 Comparison



is to:



as



is to:



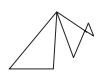
A



B



C



D



E



7

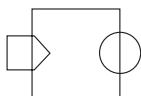
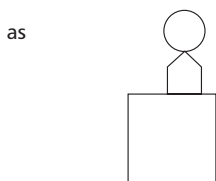
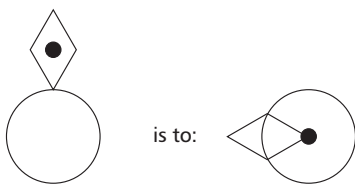
25	13	10	1	17
8	24	11	12	4
19	6	21	7	5
9	15	5	18	3
14	20	22	16	2

What number is two places away from itself, plus 3, three places away from itself doubled, two places away from itself minus 2, two places away from itself plus 4, two places away from itself minus 1, and two places away from itself plus 6?

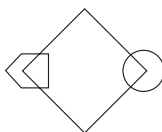
- 8 Start at one of the corner squares and spiral clockwise round the perimeter to spell out a nine-letter word, finishing at the centre square. You must provide the missing letters.

F	E	A
E	T	T
		I

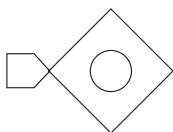
## 9 Comparison



A



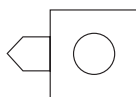
B



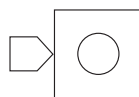
C



D

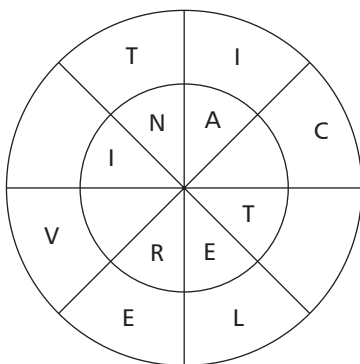


E



F

## 10



Complete two words, one reading clockwise round the inner circle and one round the outer circle. You must provide the missing letters. The two words are related in that they form a phrase.

- 11 Add one letter, not necessarily the same letter, to each word at the front, end or middle to find two words that are synonyms.

COOK, HEAT

- 12 Which word in brackets is opposite in meaning to the word in capitals?

SURREPTITIOUS (servile, trusty, scarce, overt,  
unauthorized)

- 13 What number continues this sequence?

1, 4, 8, 13, 19, ?

- 14 Solve the two anagrams below to create a familiar phrase.

Clue: Low-cost curiosity

. P . . . . F . .  
↑ FRY ONE PAN ↑

. . . R T . . . . .  
↑ YOU HURT GHOST ↑

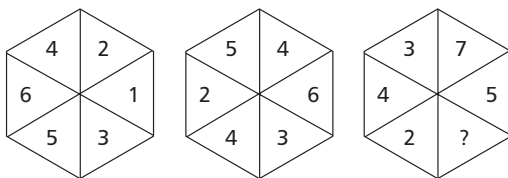
- 15 Which is the odd one out?

MOGUL, SHANG, TANG, MING, HAN

- 16 GENEALOGY : ANCESTRY

ETYMOLOGY : a) knowledge  
b) insects  
c) fossils  
d) inscriptions  
e) words

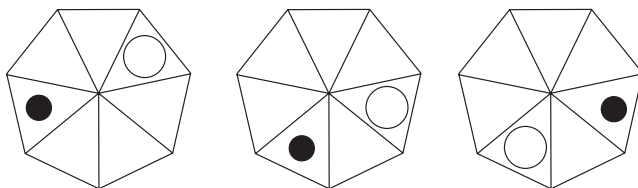
17 What number should replace the question mark?



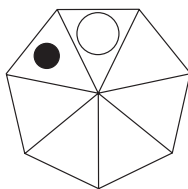
18 What three letters can be inserted into the brackets to spell out a girl's name when added to the first three letters and placed in front of the second three letters?

MAR ( . . . ) RON

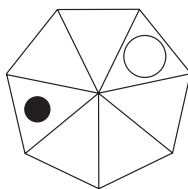
19 Sequence



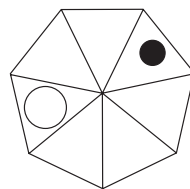
Which option below continues the above sequence?



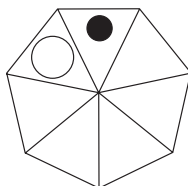
A



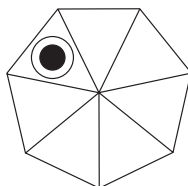
B



C



D



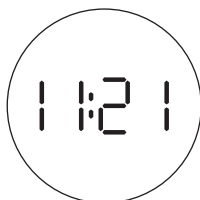
E

20 Odd one out

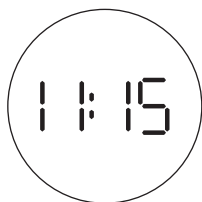
Which of these clock faces is the odd one out?



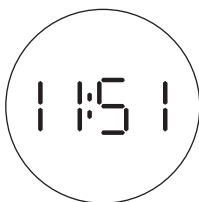
A



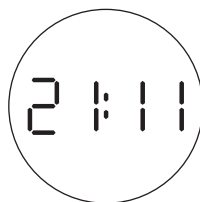
B



C

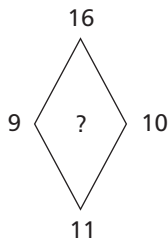
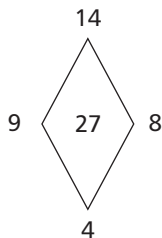
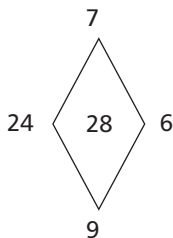


D



E

21 What number should replace the question mark?



22 What have the five words in common?

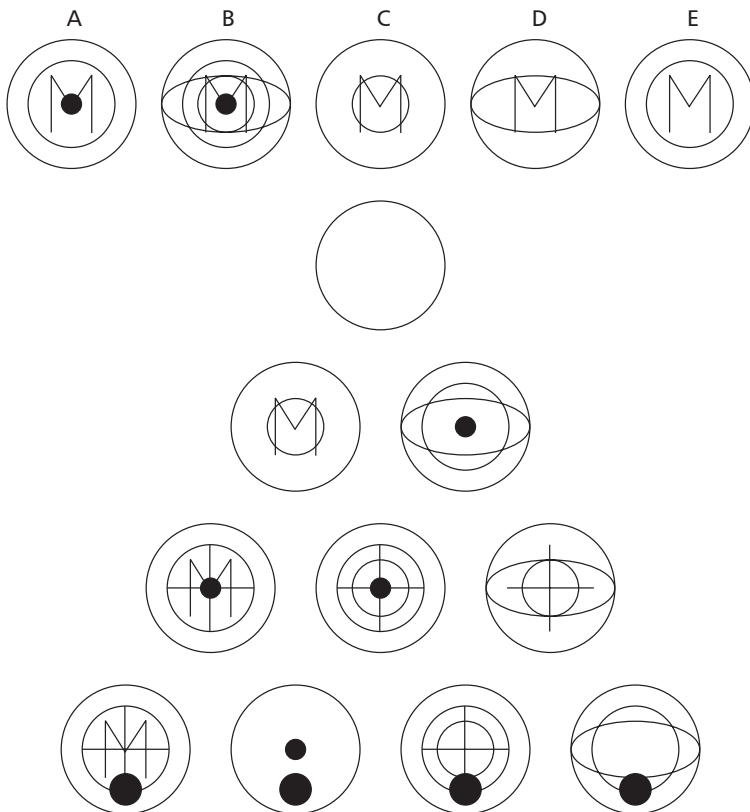
KNELL  
STAPLE  
SNORED  
REMOTE  
SUGGEST

1      11      21      1211      111221      ?

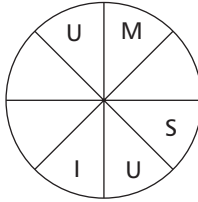
## TRAILING

## 25 Circles

Which of A, B, C, D or E fits into the blank circle to carry on the sequence?



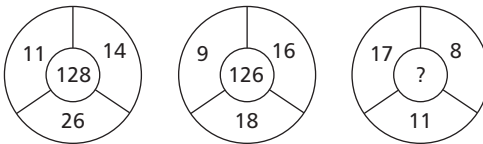
- 26 Fill in the blanks, clockwise or anti-clockwise, to complete the word.



- 27 Place two three-letter bits together to make an insect.

SPI, LOC, ADA, IST, SPI, CIC, DAR, DIR

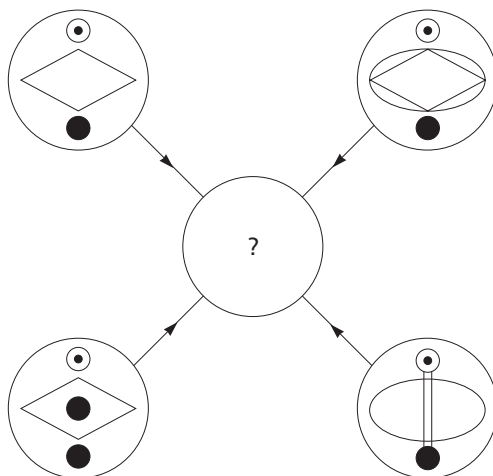
- 28 What number should replace the question mark?



- 29 What is STOCCADO?

- a) a stockade
- b) fast talking
- c) a dance
- d) a fencing stroke
- e) illness

30 Symbols

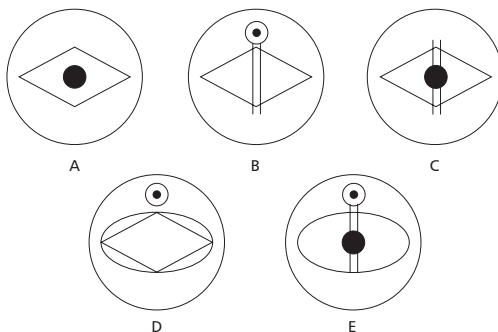


Each line and symbol that appears in the four outer circles, above, is transferred to the centre circle according to these rules:

if a line or symbol occurs in the outer circles:

- once: it is transferred
- twice: it is possibly transferred
- 3 times: it is transferred
- 4 times: it is not transferred.

Which of the circles A, B, C, D or E, shown below, should appear at the centre of the diagram, above?





31 Which two words mean the same?

OBVIATE, LACERATE, INTIMIDATE, ENDANGER,  
REPUDIATE, DISCLAIM

32 Insert a word that means the same as the words outside the brackets.

EQUAL ( . . . ) LOOK CLOSELY

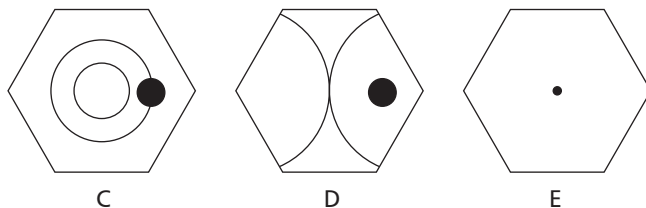
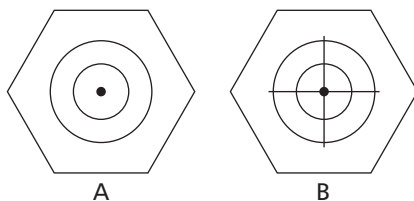
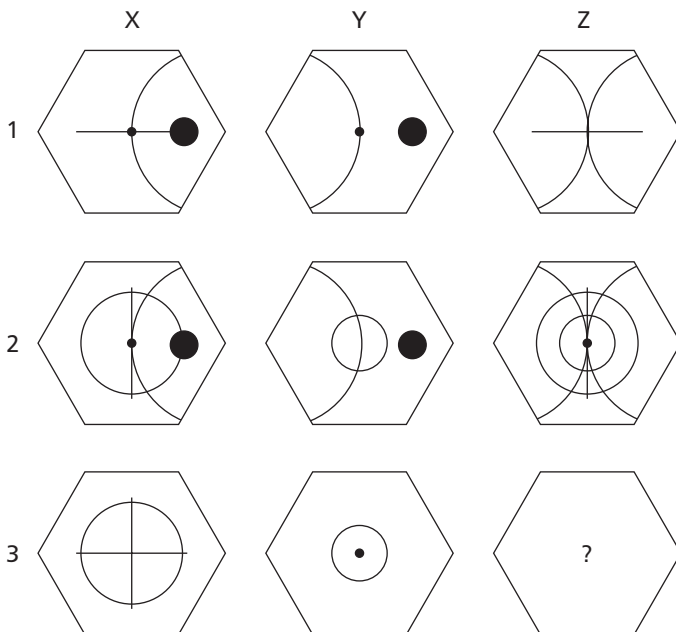
33 What is the name given to a group of PEACOCKS?

- a) bevy
- b) ostentation
- c) lepe
- d) richesse
- e) rayful

34 What number should replace the question mark?

12, 1, 10, 4, 8, 7, 6, ?

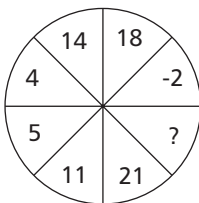
Which hexagon, A, B, C, D or E, fits the missing space?



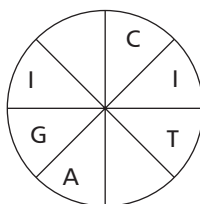
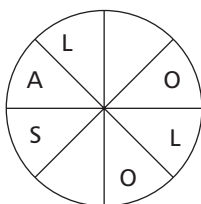
36 What is always associated with INCARNADINE?

- a) imprisonment
- b) body language
- c) teeth
- d) flesh coloured
- e) quarries

37 What number should replace the question mark?



38 Fill in the blanks, clockwise or anti-clockwise, to form two words that are synonyms.

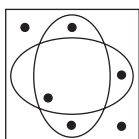
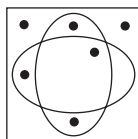


39 Which one of these is not a weather term?

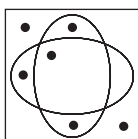
- YLILHC
- YTOSMR
- SUMPOS
- WEROHS
- ULQLSA

#### 40 Boxes

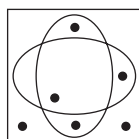
Which of the five boxes below has the most in common with the box on the right?



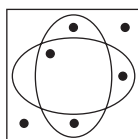
A



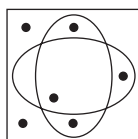
B



C



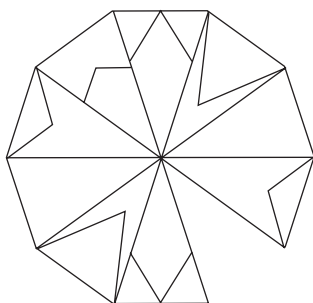
D



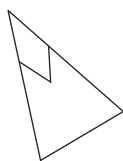
E

# Test nine

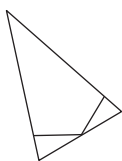
1



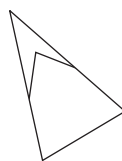
Find the missing section from the options below.



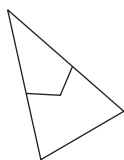
A



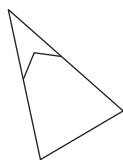
B



C

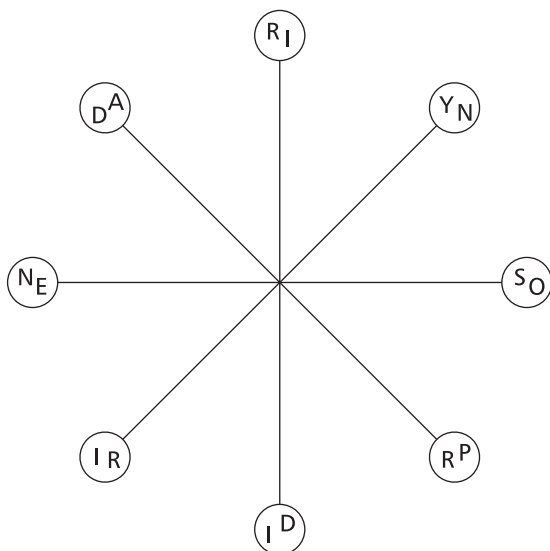


D



E

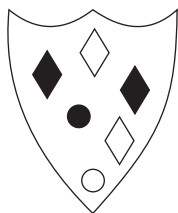
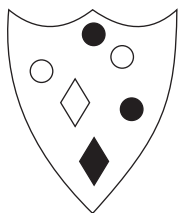
- 2 Read clockwise to spell two antonyms by selecting one letter from each circle. Every letter is used and each word starts in a different circle.



- 3 Which word in brackets means the same as the word in capitals?

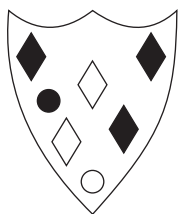
METAPHYSICAL (transient, esoteric, symbolic, planned, fastidious)

#### 4 Comparison

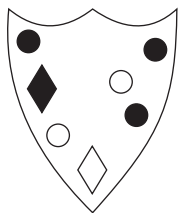


is to:

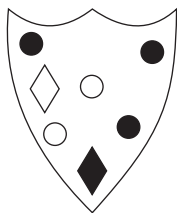
as



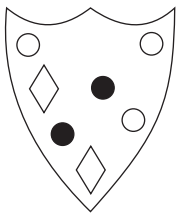
is to:



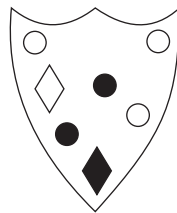
A



B

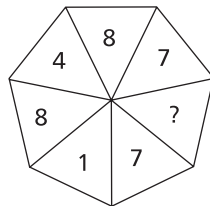
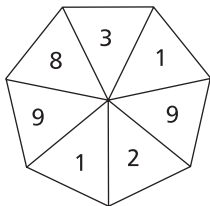
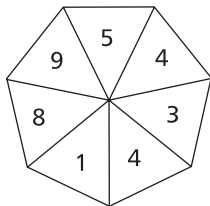


C



D

#### 5 What number should replace the question mark?



- 6 Solve each anagram to find two phrases that are spelt differently but sound alike, as in 'a name', 'an aim'.

IMPEL UP      MY EEL PUP

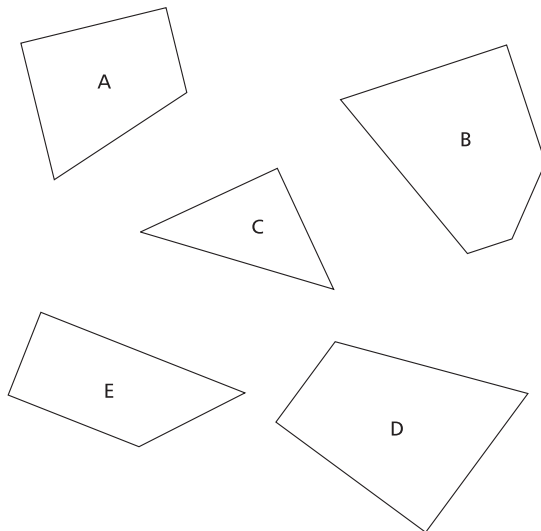
- 7 What do these words have in common?

PREFERABLE, PURVEYED, TARADIDDLE, BAGPIPES,  
BEJEWELLED

- 8 The words BEST and WORST are opposite in meaning. Find two more words that are opposite in meaning, one that must rhyme with BEST and one that must rhyme with WORST.

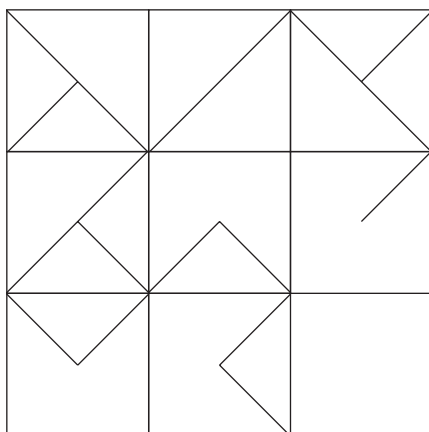
- 9 Odd one out

Four of these pieces can be fitted together to form a perfect square. Which is the odd one out?

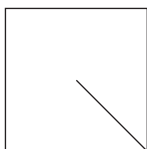




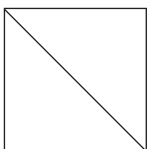
10 Missing tile



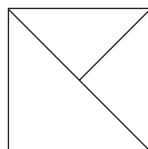
Choose the missing tile from the options below.



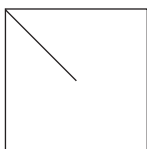
A



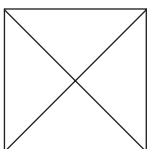
B



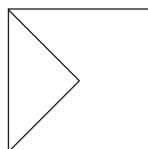
C



D



E



F

11 Which is the odd one out?

Broth, elate, organ, glean, horse, idler, dance, eager, throb,  
groan, riled, angle, shore, caned, owned, agree, endow

12 SPIN = 52

LIST = 51

CALM = 91

LOAD = 62

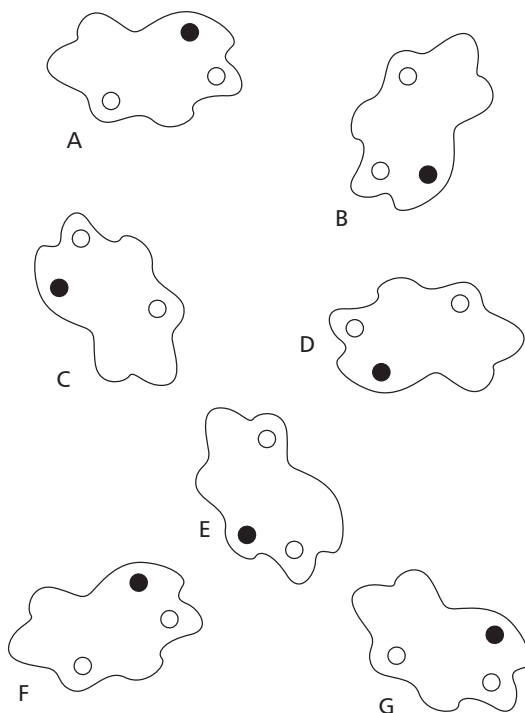
LAND = ?

13 What letter should replace the question mark?

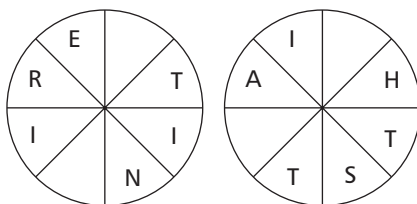
?	E	D	D
A	S	L	E
N	A	A	R
S	N	D	S

14 Odd one out

Which is the odd one out?



15 Read clockwise to find two eight-letter words that are antonyms. You have to find the starting point and provide the missing letters.



- 16 The phrase train-spotting (5–8) is an anagram of which other familiar phrase (8–5)?

Clue: take the first step

- 17 A B C D E F G H

What letter is two to the right of the letter immediately to the left of the letter that comes mid-way between the letter immediately to the left of the letter H and the letter two to the right of the letter A?

- 18 7461 : 135

6893 : a) 151

b) 179

c) 152

d) 161

e) 125

- 19 Insert the name of a fruit into the brackets reading downwards to complete the three-letter words.

BI ( . )

LE ( . )

HA ( . )

HI ( . )

TO ( . )

FA ( . )

- 20 What number should replace the question mark?

	1	
9	2	6

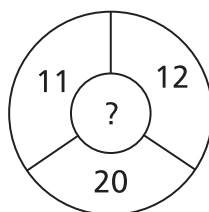
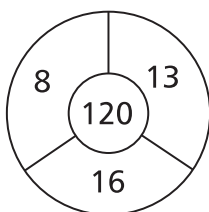
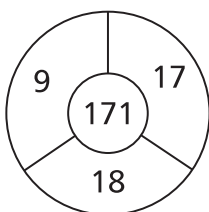
	4	
7	8	8

	1	
3	?	6

21 Which word means the same as ESPALIER?

- a) wooden trellis
- b) spectre
- c) advocate
- d) ligament

22 What number should replace the question mark?



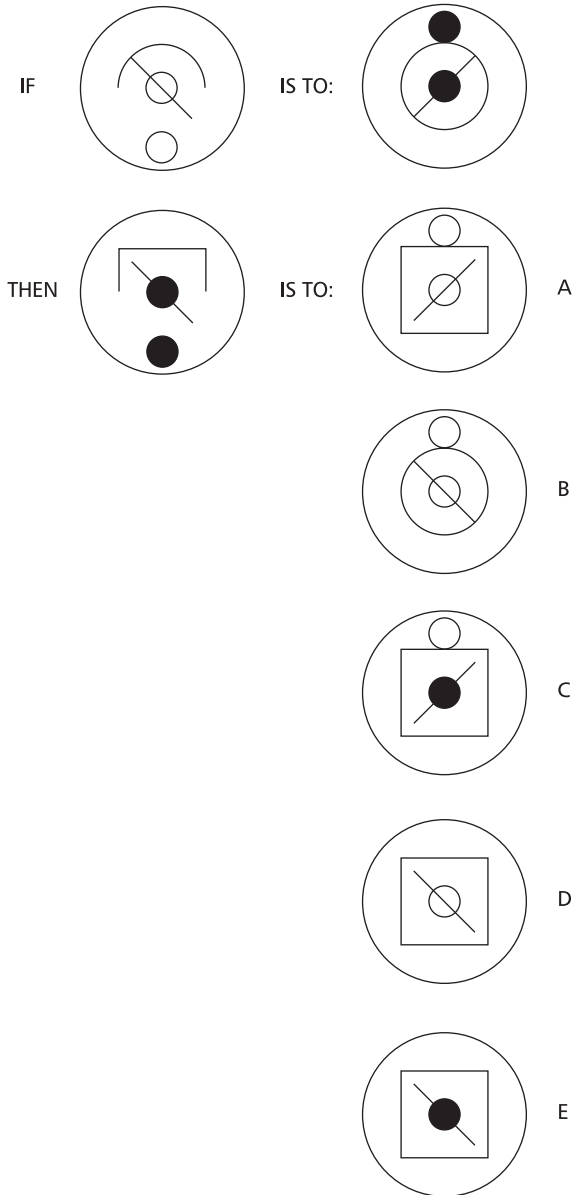
23 Solve the one-word anagram.

THE ACHE

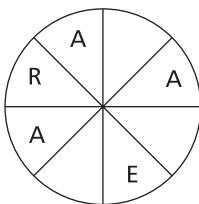
24 What number should replace the question mark?

22, 21, 30, ?, 38, 37, 46

## 25 Comparison



- 26 Fill in the blanks, clockwise or anti-clockwise, to complete the word.



- 27 Which two words mean the opposite?

CORPOREAL, IMPUDENT, SPIRITUAL, ABUNDANCE,  
FAULTLESS, CONFORMITY

- 28 What is a WASSERMAN?

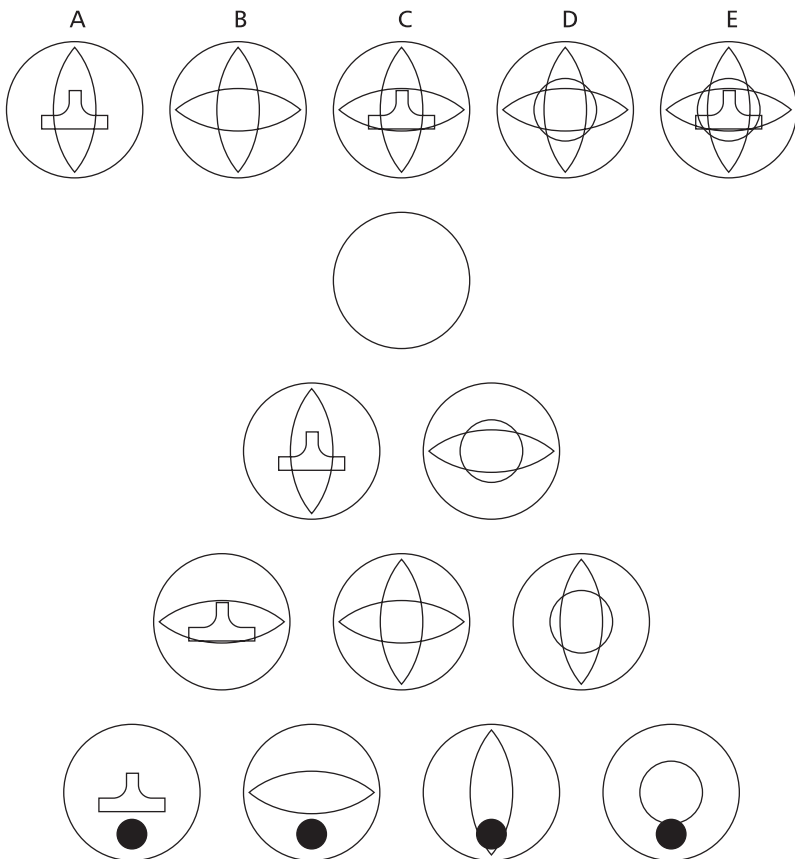
- a) a guard
- b) a bird
- c) a slave
- d) a fish
- e) a sea monster

- 29 What is the value of x ?

$$\frac{3}{5} \div \frac{39}{125} = x$$

### 30 Circles

Which of A, B, C, D or E fits into the blank circle to carry on a logical sequence?



31 Make a six-letter word using only these four letters.

LO  
TE



32 What number should replace the question mark?

6, 11,  $8\frac{1}{2}$ , 7, 11, 3,  $13\frac{1}{2}$ , ?

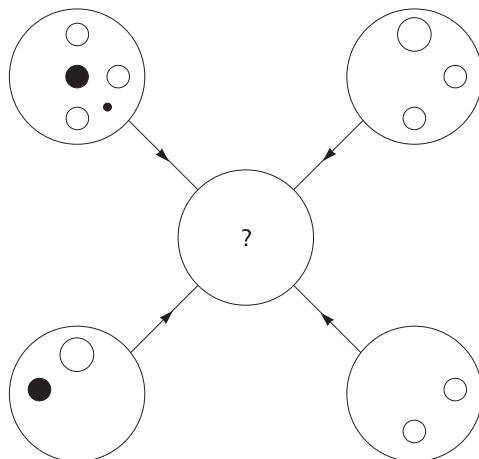
33 What is the name given to a group of WOODCOCK?

- a) dray
- b) hover
- c) fall
- d) nide
- e) parliament

34 Insert a word that means the same as the words outside the brackets.

PESTER ( . . . . . ) TYPE OF ANIMAL

### 35 Symbols

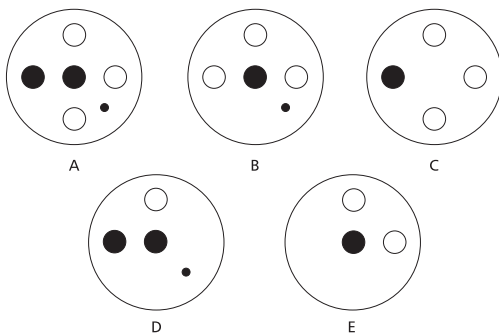


Each line and symbol that appears in the four outer circles, above, is transferred to the centre circle according to these rules:

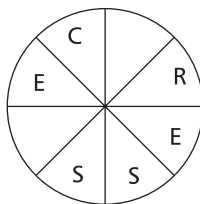
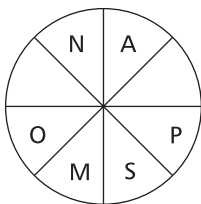
if a line or symbol occurs in the outer circles:

- once: it is transferred
- twice: it is possibly transferred
- 3 times: it is transferred
- 4 times: it is not transferred.

Which of the circles A, B, C, D or E, shown below, should appear at the centre of the diagram, above?



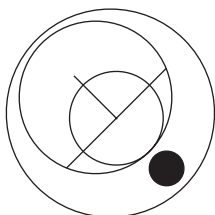
- 36 Fill in the blanks, clockwise or anti-clockwise, to form two words that are synonyms.



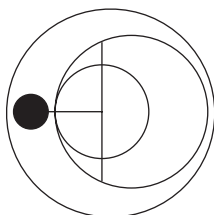
- 37 What is the symbol for  $\sqrt{-1}$ ?
- 38 What is always associated with LUFF?
- a) heartiness
  - b) sincerity
  - c) misery
  - d) clouds
  - e) wind
- 39 What number should replace the question mark?
- 1, 24, 816, 3264, 12825, 651210, ?

40 Odd one out

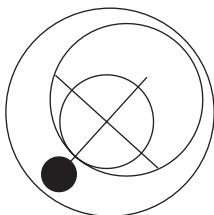
Which of these is the odd one out?



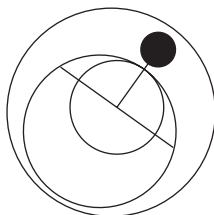
A



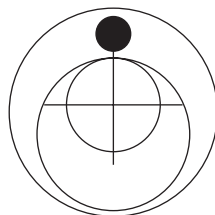
B



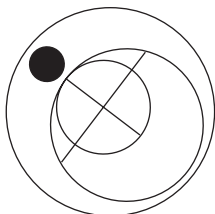
C



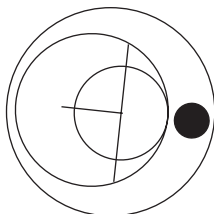
D



E



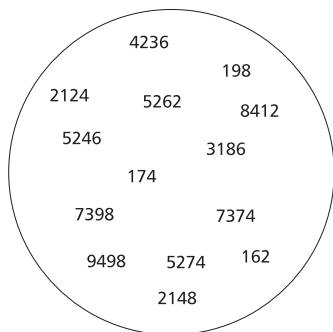
F



G

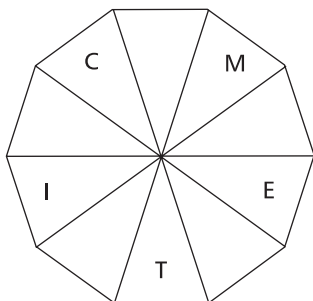
# Test ten

- 1 Which number is the odd one out?

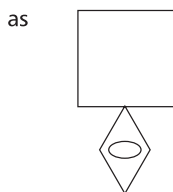
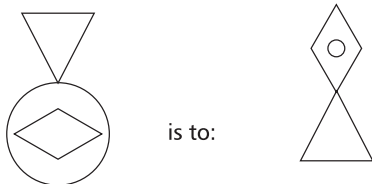


- 2 Spiral clockwise to find a 10-letter word. Only alternate letters are shown.

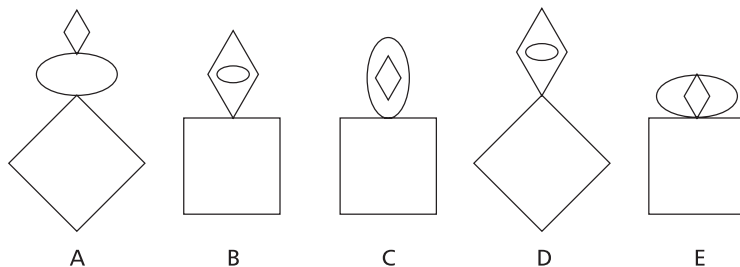
Clue: outwit



### 3 Comparison



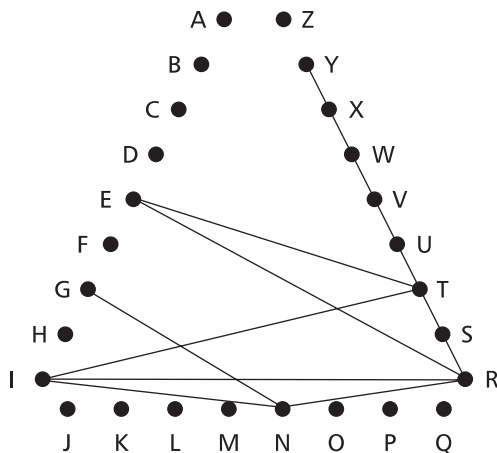
is to:



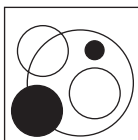
- 4 Each square contains the letters of a nine-letter word. The two words are synonyms, and the overlapping letters T and A appear in each word. Can you unscramble them?

D	E	R		
E	C	T	M	E
I	A	A	L	I
		N	E	I

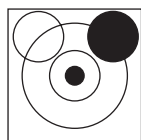
- 5 Find the starting point and track from letter to letter along the lines to spell out an item of jewellery (8, 4).



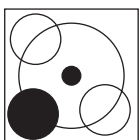
- 6 Squares



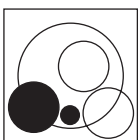
Which of the squares below has most in common with the square above?



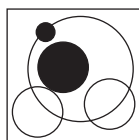
A



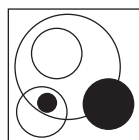
B



C



D



E

- 7 If presented with the words MAR, AM and FAR and asked to find the shortest word that contained all the letters from which these words could be produced, you should come up with the word FARM.

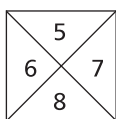
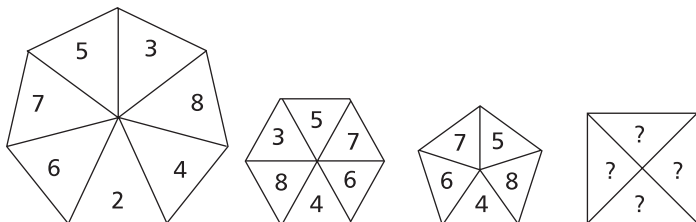
Here is a further list of words:

ANGRY, LYNCH, MAGIC

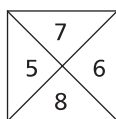
What is the shortest English word from which all these words can be produced?

Clue: captivatingly

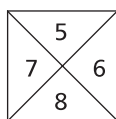
- 8 Which box of numbers (A, B, C or D) should replace the box of question marks?



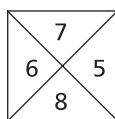
A



B



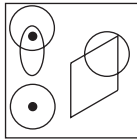
C



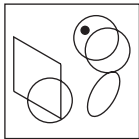
D



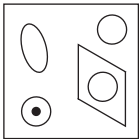
## 9 Boxes



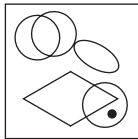
To which of the boxes below can a dot be added so that it meets the same conditions as in the box above?



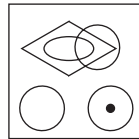
A



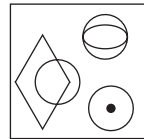
B



C



D



E

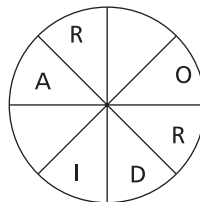
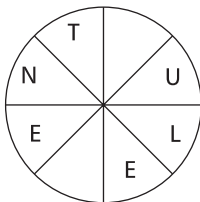
## 10 What number should replace the question mark?

1	
2	8
4	9

2	
1	5
3	4

3	
?	7
8	8

## 11 Read clockwise to find two words, one in each circle, that are antonyms. You must provide the missing letters.



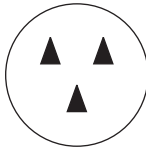
12 What number comes next in this sequence?

100, 99, 117, 108, ?

13 Comparison



is to:



as



is to:



A



B



C

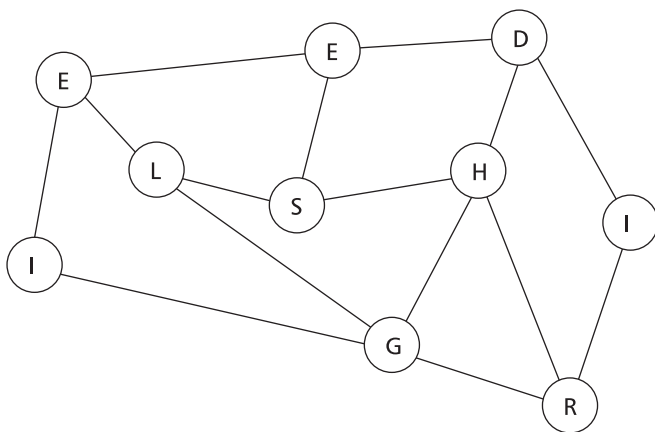


D



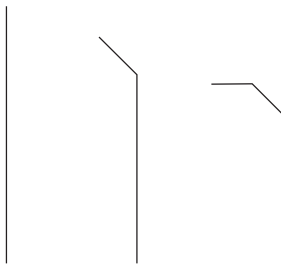
E

- 14 Read along the connecting lines from circle to circle to spell out a well-known phrase, especially at a certain time of the year (6, 4).

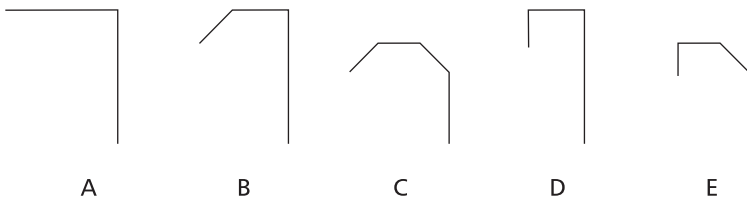


- 15 What word is both a weaving machine and means 'to menace'?
- 16 CRUSH VIOLA is an anagram of which 10-letter word?

17 Sequence



Which option below continues the above sequence?



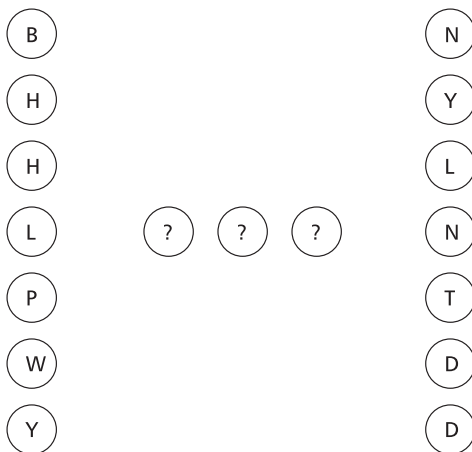
18 What number comes next in this sequence?

1, 1.5, 2.5, 4, ?

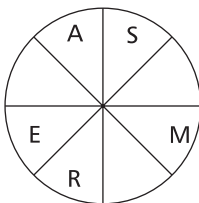
19 Only one set of letters below can be arranged into a five-letter word. Can you find the word?

MUCHO  
WINFO  
ALPIC  
DEPNU  
BRENU

- 20 What word replaces the question marks in order to form seven five-letter words sandwiched between the letters on the right and the left?



- 21 Fill in the blanks, clockwise and anti-clockwise, to complete the word.



- 22 What is always associated with NUX VOMICA?

- a) gunpowder
- b) an organ
- c) strychnine
- d) smelling salts
- e) hymns

23 Which is the odd one out?

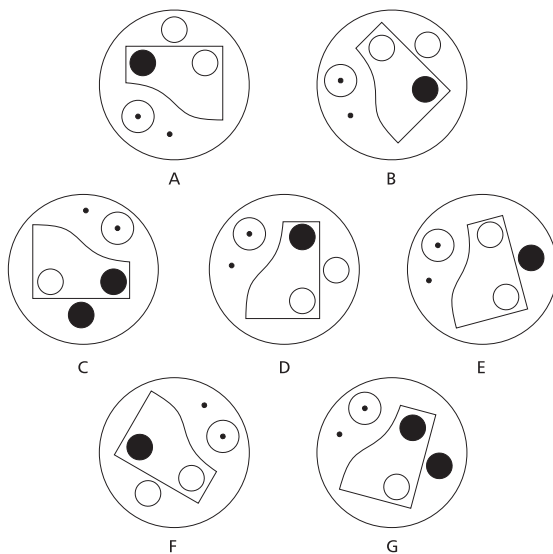
- a) ballista
- b) vantage
- c) arquebus
- d) claymore
- e) bazooka

24 What is ZAPATEADO?

- a) a moustache
- b) a dance
- c) a drumming noise
- d) a dish
- e) a flower

25 Odd one out

Which is the odd one out?



26 What is the meaning of NUBILE?

- a) lithe
- b) charismatic
- c) marriageable
- d) thoughtful
- e) myopic

27 Insert a word that means the same as the words outside the brackets.

DOG ( . . . . . ) SPORTSMAN

28 What is the name given to a group of DUCKS?

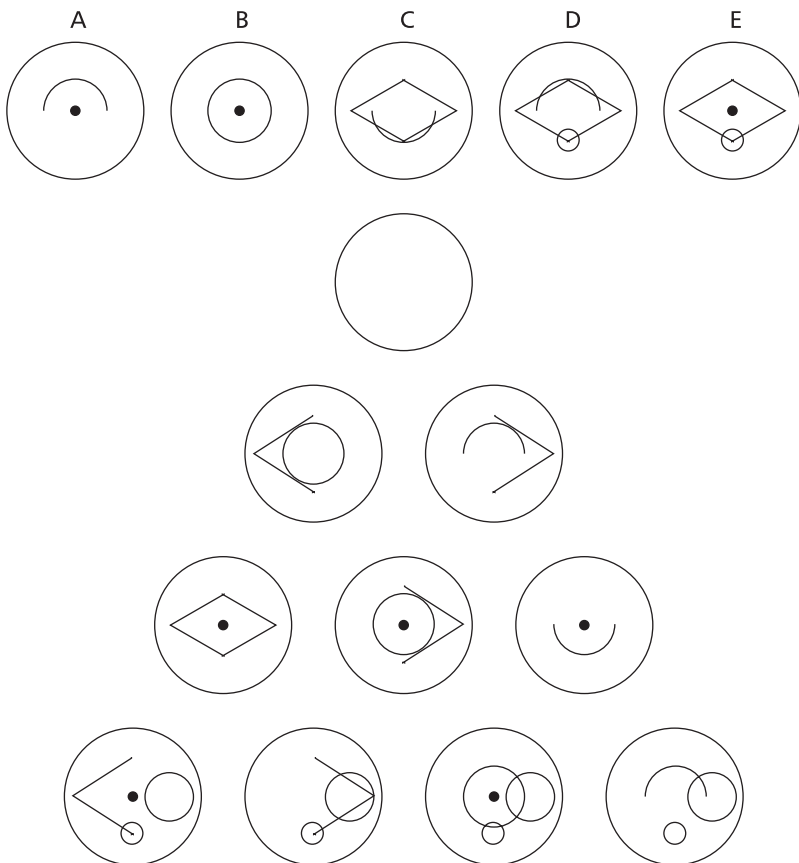
- a) paddling
- b) fesnyng
- c) knob
- d) muster
- e) plump

29 Place two three-letter bits together to make a FRUIT.

ORA – PAP – PIN – PAW – PAR – PIP – AYE – NGI

### 30 Circles

Which of A, B, C, D or E fits into the blank circle to carry on the sequence?



31 What number should replace the question mark?

1, 4, 13, 40, 121, ?



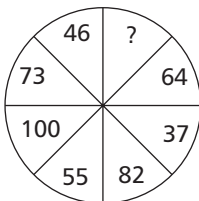
32 Which two words mean the same?

INDUSTRIOUS, BEARING, BUSINESS, MIEN, PANACEA,  
IMPIETY

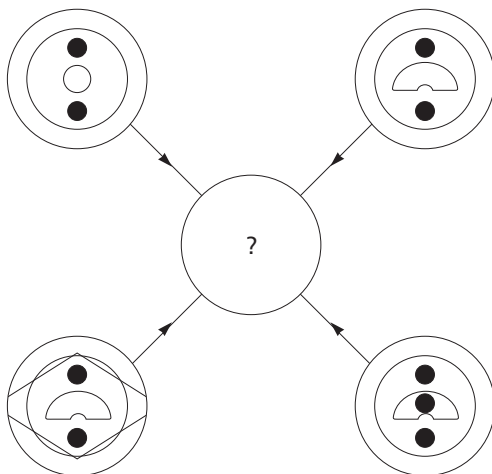
33 Solve the one-word anagram.

SOBBING

34 What number should replace the question mark?



### 35 Symbols

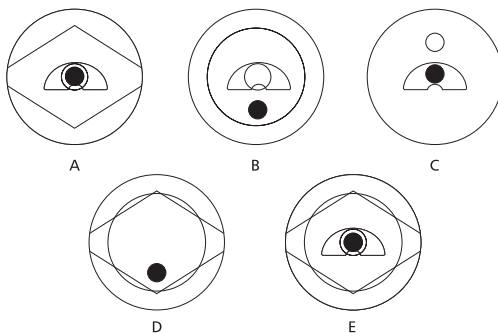


Each line and symbol that appears in the four outer circles, above, is transferred to the centre circle according to these rules:

if a line or symbol occurs in the outer circles:

- once: it is transferred
- twice: it is possibly transferred
- 3 times: it is transferred
- 4 times: it is not transferred.

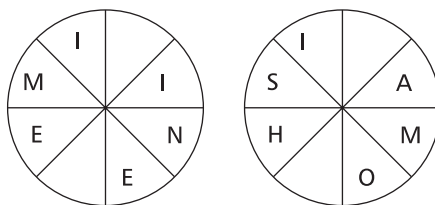
Which of the circles A, B, C, D or E, shown below, should appear at the centre of the diagram, above?



36 Which number should replace the question mark?

4, 12,  $7\frac{1}{2}$ ,  $10\frac{1}{2}$ , 11, 9,  $14\frac{1}{2}$ , ?

37 Fill in the blanks, clockwise or anti-clockwise, to form two words that are synonyms.



38 Find a word to replace the dots that means the same as the words outside the brackets.

WEIGHT ( . . . . ) LYNX

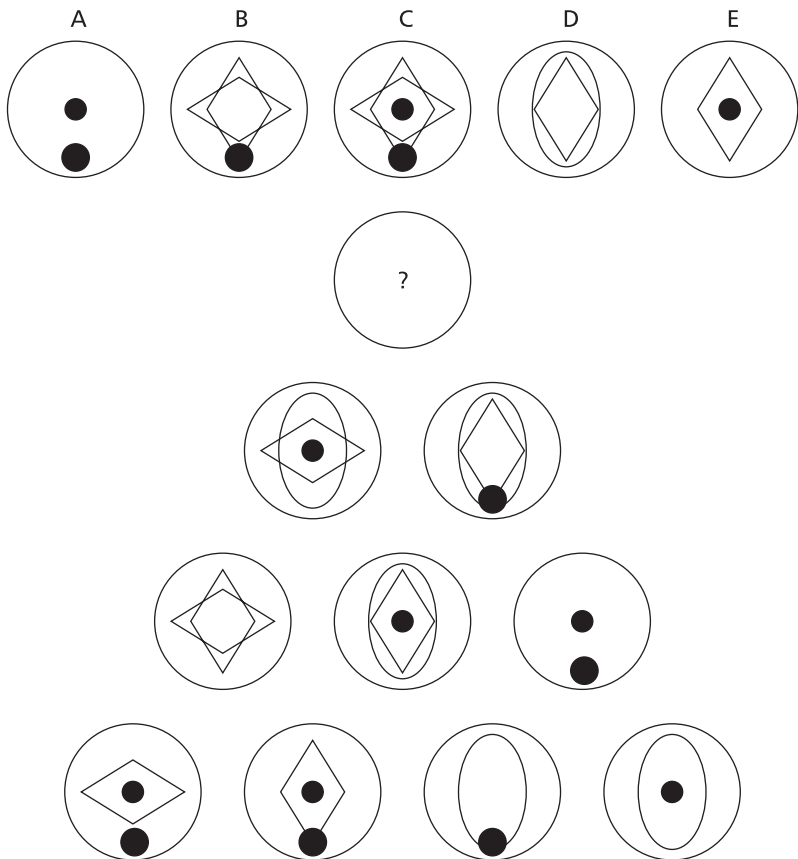
39 Find a word to replace the dots to make five new words.

DISCORD  
GALL  
SEC  
ERR  
PAGE

Five lines connect each of the words on the left to a single point on the right, which is followed by the text "(...)" in brackets.

# 40 Circles

Which of A, B, C, D or E fits into the blank circle to carry on a logical sequence?



# Test one

## Answers

- 1 Vast melody
- 2 Fjord; it is a stretch of water. The others are all land.
- 3 6;  $4 \times 9 = 36$
- 4 Reef; to spell out the numbers as follows:  
CART(ONE)NJOYMEN(TWO)RDSMI(THREE)F
- 5 E; a dot is only carried forward when it appears in the same position in two of the previous three circles.
- 6 Talent
- 7 27; add, then deduct, the sum of the digits of the previous number alternately each time, ie  $36 - 3 - 6 = 27$
- 8 Delete; to give: fade/desk, hole/lean, kite/tear
- 9 48 mph  
Say, distance travelled = 60 miles each way  
therefore journey out =  $\frac{60}{40} = 1.5$  hours  
journey in =  $\frac{60}{60} = 1$  hour  
120 mile journey =  $\frac{120}{2.5} = 48$  mph

10 Abundance

11 c) across

12 Double-page spread

13 A; the figure rotates into an upright position anti-clockwise. Black turns white and white turns black.

14

4	14	15	1
9	7	6	12
5	11	10	8
16	2	3	13

15 They all contain trees: le(gum)es, qu(ash)ed, af(fir)ms, cl(oak)ed

16  $51; 9 \times 5 = 45 + 6 = 51$

17 When prosperity comes, do not use all of it.

18 Long, pithy

19 0; looking down and across the sum of alternate numbers are equal, for example  
 $7 + 9 = 10 + 6$

20 Never look a gift horse in the mouth.

21 a) recluse

22  $64 - (12 \times 2) + (6 \div 3) = 42$

The rule is  $\times$ ,  $\div$ ,  $+$ ,  $-$  taken in that order.

23 Butchery, massacre

24 Clear soup

25 1A

26 Polecat

27 Grill

28 31; increase by 5 in a clockwise fashion every three sectors  
ie 1, 6, 11, 16, 21, 26, 31, 36.

29 Feeler

30 E; the two lower circles join together to form the circle  
above, but similar symbols disappear.

31 Disparage, praise

32 c) building

33 Dam

34  $\frac{5}{6} \div \frac{1}{7} = \frac{5}{6} \times \frac{7}{1} = \frac{35}{6} = 5 \frac{5}{6}$

35 A;  $x + y = z$

$$1 + 2 = 3$$

But similar symbols disappear.

36 Escudo

37 e) a compass

38 Frigidly

39 67;  $(7 \times 8) - 8 = 48$

$$(9 \times 7) - 5 = 58$$

$$(11 \times 5) - 7 = 48$$

$$(6 \times 12) - 5 = 67$$

40 A

# Test two

## Answers

1 14

2 Vulnerable

3 Wednesday

4 In the pink

5 Antipodean



- 6 Rise to vote sir
- 7 B
- 8 7, 21, 22
- 9 Sack oboe = bookcase. The books are lexicon (Neil Cox), thesaurus (assure hut), omnibus (sumo bin) and cookery (Roy Coke).
- 10 Modest
- 11 Fox
- 12 14;  $14^2 = 196$
- 13 Halt, start
- 14 B; A is the same as E rotated, and C is the same as D.
- 15 Fresh – water – fall – short – story – line – age – group
- 16 28, 102;  $7 \times 4 = 28$ ,  $74 + 28 = 102$
- 17 Pen; it is a female swan. The rest are all male animals.
- 18 Picture-gallery
- 19 24;  $24336 \times 2 = 48672$ , ie the number formed at the top half of the decagon is double the number formed by the bottom half.

20 Exultation

21 Ringworm

22 d) basketwork

23 Fob

24 Crocodile

25 B; A same as D  
F same as G  
E same as C

26	55;	61	54	62	55	63	56	64
		-7	+8	-7	+8	-7	+8	

27 e) an onlooker

28 Acacia

29 Rock

30 D; the two lower circles combine to form the circle above, unlike symbols disappear.

31 Lambent, flickering

32 Derision, contempt

33 d) novice

$$34 \quad \frac{4}{13} \div \frac{9}{52} = \frac{4}{13} \times \frac{52}{9} = \frac{16}{9} = 1 \frac{7}{9}$$

$$35 \quad \text{B; } x + y = z$$

$$1 + 2 = 3$$

But similar symbols disappear.

$$36 \quad 45; (7 + 6) \times 4 = 52$$

$$(9 + 3) \times 5 = 60$$

$$(10 + 5) \times 4 = 60$$

$$(8 + 7) \times 3 = 45$$

$$37 \quad (7 \times 9) - (3 \times 4) + 10 = 61$$

The rule is  $\times$ ,  $\div$ ,  $+$ ,  $-$  taken in that order.

38 e) glean

$$39 \quad 30; \quad 9 - 6 = 3 \quad \quad 7 - 3 = 4 \quad \quad 8 - 2 = 6$$

$$7 + 7 = 14 \quad \quad 6 + 4 = 10 \quad \quad 3 + 2 = 5$$

40 2A

# Test three

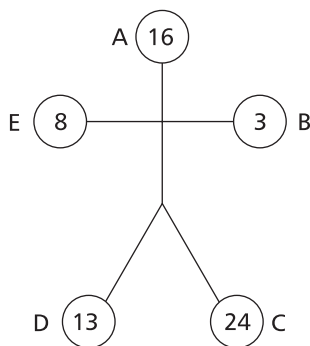
## Answers

1 Paragraph; the vowel is O.

2 Jacksonville

3 D; each time two symbols touch they disappear at the next stage and are replaced by two new symbols.

4



$$A + E = C$$

$$C \div E = B$$

$$A - B = D$$

5 Auld Lang Syne

6 I scream, ice cream

$$\begin{array}{lll} 7 \quad 18; 14 \times 4 = 56, & 4 \times 4 = 16, & 8 \times 4 = 32 \\ & 9 \times 4 = 36, & 7 \times 4 = 28, & 5 \times 4 = 20 \end{array}$$

8 One man band; to give: ago, fan, hue, dim, lea, pan, hob, pea, man, wad.

- 9 Embroidery (my dire robe)
- 10 b) flag
- 11 E; all the others are made up of three identical shapes.
- 12 Supplication, plea
- 13  $-2$ ;  $1 (+1) = 2$ ,  $2 (-2) = 0$ ,  
 $0 (+3) = 3$ ,  $3 (-4) = -1$ ,  
 $-1 (+5) = 4$ ,  $4 (-6) = -2$
- 14 The Old Man and the Sea (Ernest Hemingway); to give:  
hothead, scolded, romance, slander, dithery, roseate
- 15 4; the numbers represent the numbers of consonants in  
each word of the question.
- 16 E; the black circle moves one left, three right;  
the line moves one right, three left;  
the tower moves two left, one right;  
the white circle moves one right, two left.
- 17 RUE; each letter moves forward three places in the alphabet:
- O P Q R**  
**R S T U**  
**B C D E**
- 18 45;  $13 \times 4 = 52 - 7 = 45$
- 19 Lax/lacks
- 20 Avoid

21 Horrific

$$\begin{array}{rcl} 22 \quad 176; & 6 + 7 = 13 & 11 + 12 = 23 & 17 + 5 = 22 \\ & 10 - 2 = \frac{8}{104} \times & 6 - 3 = \frac{3}{69} \times & 10 - 2 = \frac{8}{176} \times \end{array}$$

23 c) stone

24 Pan

25 C

26 a) a charm

$$27 \quad \frac{5}{11} \div \frac{15}{44} = \frac{5}{11} \times \frac{44}{15} = \frac{4}{3} = 1 \frac{1}{3}$$

28 Magpie

29 Fizgig

30 E

31 Hail

$$32 \quad -8 + (6 \times 8) - (2 \times 5) = 30$$

The rule is  $\times$ ,  $\div$ ,  $+$ ,  $-$  taken in that order.

33 Handsome, pleasing

34 a) a mathematical term

35 2B

36 Gratuitous, free

37 Alligators

38  $32; 4 \div 2 \times 8 = 16$

$6 \div 3 \times 7 = 14$

$9 \div 3 \times 8 = 24$

$8 \div 4 \times 16 = 32$

39 28;      27      31      28      32      29      33      30  
                 +4      -3      +4      -3      +4      -3

40 D;  $x + y = z$

$1 + 2 = 3$

But similar symbols disappear.

# Test four

## Answers

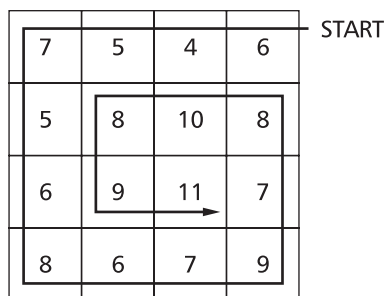
1 Clarion; all the others have a keyboard.

2 At a loss for words

3 46284; take the even numbers in reverse order.

4 None of them repeat a letter.

- 5 D; there are three different top symbols and three different bottom (inverted) symbols in each horizontal line and vertical column of shields.
- 6 Molecule, particle
- 7 c) mansard : roof
- 8 Folly
- 9 9, 11; start at the top right-hand square and spiral to the centre following the route shown in the sequence  $-2, +1, +2$



- 10 They can all be prefixed with semi, ie semiprecious, semicircle, semitone, semi-automatic.
- 11 Keep the ball rolling.
- 12 8; the top three lines added together equal the bottom line:  $27684 + 12196 + 25478 = 65358$



13 13211A; each group describes the one before, ie one 3, two 1s, one A.

14

D	A	M	P				
A	R	E	A				
M	E	W	S				
P	A	S	T	I	M	E	
				I	D	O	L
				M	O	S	S
				E	L	S	E

15 C; one is a mirror image of the other.

16 Evacuation; it repeats the letter a. All the other words have the vowels a, e, i, o, u, once only.

17 7984; in all the others multiply the middle two digits to obtain the first and fourth digits, for example 5964, where  $9 \times 6 = 54$ .

18 Knaveish, principled

19 Thunder storm, to give: hat, hen, pad, rue, ear, sit, elm.

20 Martin, which is an anagram of Antrim.

Strode is an anagram of Dorset; milk, rice an anagram of Limerick; and Edna, beer an anagram of Aberdeen.

21 Hide

22 Out

23 9; opposite segments add to 12.

24 b) Haras

25 A

26 Urbanity, breeding

27 a) A clockwork model

$$28 \quad \frac{17}{19} \div \frac{3}{38} = \frac{17}{19} \times \frac{38}{3} = \frac{34}{3} = 11\frac{1}{3}$$

29 Dihras = radish

30 B;  $x + y = z$

$$1 + 2 = 3$$

But similar symbols disappear.

$$31 \quad 132; \quad \begin{array}{l} 16 - 4 = 12 \\ 3 + 3 = 6 \end{array} \times \quad \begin{array}{l} 17 - 1 = 16 \\ 8 + 2 = 10 \end{array} \times \quad \begin{array}{l} 14 - 3 = 11 \\ 8 + 4 = 12 \end{array} \times$$

32 Astronomers

33 Lampoon, defame

34 Wind

35 E

36 c) a messenger

37 Pinwheel

38  $3 - (6 \times 7) + (6 \div 4) = -37\frac{1}{2}$

The rule is  $\times$ ,  $\div$ ,  $+$ ,  $-$  taken in that order

39 Donkey

40 3A

# Test five

## Answers

1 14

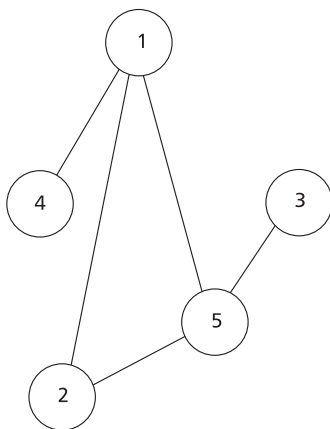
2 Enable, length, thief, vendor, oracle, lessen.

3 1.5 minutes

$$\frac{1}{3} + \frac{1}{2} - \frac{1}{6} = 0.33 + 0.5 - 0.166 = 0.66$$

$$\frac{1}{0.66} = 1.5 \text{ minutes}$$

- 4 B; the large arc moves  $45^\circ$  anti-clockwise. The two remaining arcs move  $90^\circ$  anti-clockwise.
- 5 Tap; all the other three-letter words are spelt out by alternate letters of one of the seven-letter words, for example ASTOUND = SON
- 6 53;  $3 + 2 = 5$   $2 + 1 = 3$
- 7 They all contain Biblical characters:  
ABUN(DAN)CE, AL(LEVI)ATE, UNT(RUTH)S,  
PRO(CAIN)E, C(HAM)BER
- 8 P; there are 15 letters before it in the alphabet, and ten after.
- 9 Flush toilet
- 10 C; it repeats the second flag with left and right reversed in the same way that the third flag repeats the first flag.
- 11



12 Fragrant, aromatic

13 Simpler tax

14 d) invent

15 Meet – encounter (truce none)

16 698; the numbers 98725136 are being repeated in the same order.

17 Professional

18 27; there are two sequences running alternately. The first starts with 7 and goes +2, +3, +4 etc. The second starts with 8 and goes +2, +4, +6 etc.

19 Vagrant, itinerant

20 Put on ice

21 XESTTE = SEXTET

$$\begin{array}{lll} 22 \text{ 55; } & 8 \div 2 = 4 & 9 \div 3 = 3 & 10 \div 2 = 5 \\ & 11 + 7 = \frac{18}{72} \times & 12 + 6 = \frac{18}{54} \times & 2 + 9 = \frac{11}{55} \times \end{array}$$

23 Picture

24 c) draught

25 C; the two lower circles combine to form the circle above but similar symbols disappear.

26 a) a vehicle

27 Insomuch

28 Hedge

29 Gigolo

30 1A

31 c) trifling

32 Innocent, virtuous

$$33 \frac{7}{9} \div \frac{5}{27} = \frac{7}{9} \times \frac{27}{5} = \frac{21}{5} = 4 \frac{1}{5}$$

34 a) pottery

35 F;  $x + y = z$

$$1 + 2 = 3$$

But similar symbols disappear.

36  $(4 \times 3) - (70 \div 10) + 6 = 11$

The rule is  $\times$ ,  $\div$ ,  $+$ ,  $-$  taken in that order.

37 Disingenuous, candid

38 Clover

39 Penguins

40 F; A is the same as D

B is the same as E

C is the same as G

# Test six

## Answers

1 Fluvial/river, psittacine/parrot, corvid/rook, vernal/spring.

2 7662; start at 56 and work clockwise as follows:

+  $1 \times 2$ , +  $2 \times 2$ , +  $3 \times 2$ , +  $4 \times 2$  etc.

For example  $(56 + 1) \times 2 = 114$ ,  $(114 + 2) \times 2 = 232$

3 D; only circles connected to one other circle are carried forward and a line is then drawn between them.

4 6814; reverse the digits and add together to obtain the final digits.

5 Crush, break

6 Caretaker

7 23; discard the highest digit each time, then reverse the remaining digits.

9 R; only letters with an enclosed area as printed.

## 10 Lineage

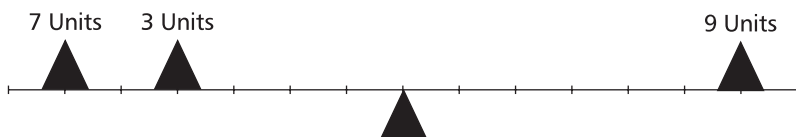
11 A dog! A panic in a pagoda.

12 11

13 E; the two lines are moving one corner at a time at each stage, one clockwise, the other anti-clockwise.

## 14 Faithful

15



$$6 \times 7 = 42$$

$$4 \times 3 = \frac{12}{54}$$

$$= 9 \times 6 \text{ (54)}$$

## 16 Oscillated

17 B; A is the same as D with black/white reversal;  
C is the same as E with black/white reversal.



18 On the level

19  $14; 7 \times 4 = 28 \div 2 = 14$

20 e) aphelion

21 GALLIPOT

22 Verbose, prolix

23 Endive

24 a) a metal band

25 B

26 Basset

27  $44; 6 + (4 \times 4) = 22$

$$4 + (3 \times 3) = 13$$

$$1 + (5 \times 4) = 21$$

$$2 + (6 \times 7) = 44$$

28  $30; 4 \times 19 = 76$

$$4 \times 16 = \frac{64}{12} -$$

$$6 \times 7 = 42$$

$$3 \times 4 = \frac{12}{30} -$$

29 d) kindle

30 3B

31 d) a sail

32 Scorpion

33 16; There are two series:

$$\begin{array}{rcl} -1 & 10, 9, 8, 7 \\ +5 & 1, 6, 11, 16 \end{array}$$

34 Dreadful, shocking

35 C; the lower two circles combine to produce the circle above but like symbols disappear.

$$\begin{array}{lll} 36 \quad 120; & 4 \times 4 = 16 & 3 \times 12 = 36 & 20 \times 2 = 40 \\ & 12 - 8 = \frac{4}{64} \times & 9 - 3 = \frac{6}{216} \times & 9 - 6 = \frac{3}{120} \times \end{array}$$

37 Trylus = sultry

38 Mean

$$39 \quad -6 + 56 - 1\frac{1}{2} + 19 = 67\frac{1}{2}$$

40 A

# Test seven

## Answers

- 1 A; there are two alternate sequences. In the first the circles are getting smaller, in the second they are getting larger.
- 2 Starting post; to give: cut, tea, oat, ran, pep, ass
- 3 Dumbfounded; in each word the letters ONE are moving up one place, ie  
. O . N . E . . . . . , . . O . N . E . . . . etc.
- 4 6; the number in the first triangle is arrived at by adding the numbers at the top, ie  $6 + 3 + 8 = 17$ . Similarly,  $7 + 8 + 9 = 24$ , and  $2 + 3 + 1 = 6$
- 5 Let testing client
- 6 25 appears twice, 57 is missing
- 7 Appealing
- 8 4; the total of numbers on each side is 26.
- 9 XYZ = CAT; cattle, scatthe, locate, muscat
- 10 B; at each stage the dot moves down one. After it has appeared in a figure, that figure becomes inverted.

11 CAPRICORN

APRICOT

DEPRIVE

SLIVER

LIBRA

Variations are possible.

12 Call it a day

13 Season, sonnet

14 Feeble

15 Monday; skip an extra day at each stage.

16 E; each triangle stays on its same base but its apex moves.  
The triangle with the dot moves one clockwise, two anti-clockwise etc. The other triangle moves in exactly the same way.

17 Move as follows:

8	5	3
6	T	1
4	2	7

18 Known ocean, no notion

19 Considerably

20 All contain a drink:

TOT(AL E)CLIPSE

A PI(G IN) A POKE

WHI(TE A)DMIRALS

21 Forsaken

22 d) secret

23  $48; 7 \times 6 = 42$   
 $3 - 2 = 1$   $\times 42$   $4 \times 4 = 16$   $\times 80$   $8 \times 2 = 16$   $\times 48$   
 $7 - 2 = 5$   $14 - 11 = 3$

24 Wildcat

25 D; the two lower circles combine to form the circle above. Similar symbols disappear.

26  $4; 64 \div 8 = 8 - 2 = 6$

$21 \div 7 = 3 - 1 = 2$

$30 \div 5 = 6 - 1 = 5$

$24 \div 4 = 6 - 2 = 4$

27 b) a leg of mutton

28 Minnow

29 Carp, approve

30 D

31 a) food

32 2; the 3 numbers add up to 200.

33 Valorous, fearless

34 Oology

35 2B

36 Man

37 2; there are 2 series:

+1 7, 8, 9, 10

-4 14, 10, 6, 2

38 a) exaltation

39 MATBAN = BANTAM

40 D  $x + y = z$

$1 + 2 = 3$

But similar symbols disappear

# Test eight

## Answers

1 EMRUD = DEMUR

2 2; the numbers in each circle add up to 33.

- 3 Rainstorm (minor arts)
- 4 Sistine Chapel; to give: obi, was, eat, own, fee, lac, dip, ode, nil.
- 5 20 minutes;  $30 \times \frac{10}{15}$
- 6 C; the top apex and the bottom right apex are folded over
- 7 5
- 8 Defeatist
- 9 D; the figures outside the square move from the 12 o'clock to the 9 o'clock position. The circle goes in the middle of the square and the other figure half inside the square.
- 10 Terminal, velocity
- 11 Crook, cheat
- 12 Overt
- 13 26; add 3, 4, 5, 6 then 7
- 14 A penny for your thoughts
- 15 Mogul; it is an Indian dynasty. The rest are Chinese.
- 16 e) words

- 17 6; in the first circle opposite segments total 7, in the second circle they total 8, and in the third circle 9.
- 18 SHA; Marsha, Sharon.
- 19 A; at each stage the black circle moves one segment anti-clockwise, then two segments, then three etc. The white circle does the same, but clockwise.
- 20 B; A is a mirror image of D and C a mirror image of E.
- 21 24;  $24 + 7 + 6 - 9 = 28$   
 $9 + 14 + 8 - 4 = 27$   
 $9 + 16 + 10 - 11 = 24$
- 22 They all contain boys' names in reverse.  
LEN, PAT, RON, TOM, GUS
- 23 312211; each number describes the previous number,  
eg three 1s, two 2s, one 1.
- 24 Ringtail
- 25 B; the lower two circles combine to form the circle above but similar symbols disappear.
- 26 Jumpsuit
- 27 CICADA
- 28 125;  $(11 \times 14) - 26 = 128$   
 $(9 \times 16) - 18 = 126$   
 $(17 \times 8) - 11 = 125$



29 d) a fencing stroke

30 C

31 Repudiate, disclaim

32 Peer

33 b) ostentation

34 10; there are two series:

-2      12, 10, 8, 6

+3      1, 4, 7, 10

35 B;  $x + y = z$

$1 + 2 = 3$

But similar symbols disappear.

36 d) flesh coloured

37 11; opposite segments reduce by 7, smaller taken from larger.

38 Colossal, gigantic

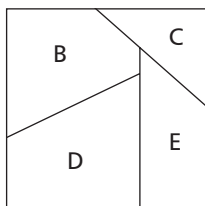
39 SUMPOS = POSSUM

40 C

# Test nine

## Answers

- 1 D; opposite segments are a mirror-image of each other.
- 2 Ordinary, inspired
- 3 Esoteric
- 4 D; black circles turn to white diamonds; white circles turn to black diamonds, and vice versa.
- 5 1; reading clockwise  $89 + 54 = 143$   
 $98 + 31 = 129$   
 $84 + 87 = 171$
- 6 Plum pie, plump eye
- 7 All contain internal anagrams; p(refer)able, purv(eye)d, tara(did)dle, bag(pip)es, bej(ewe)lled.
- 8 Blessed, cursed
- 9 A;



- 10 B; looking both across and down the contents of the third tile is determined by the contents of the first two tiles. Lines are carried forward except when a line appears in both tiles, in which case it is cancelled out.
- 11 Elate; the rest are anagram pairs: glean/angle, riled/idler, horse/shore, groan/organ, caned/dance, eager/agree, owned/endow, broth/throb.
- 12 LAND = 91; nine straight lines, one curved
- 13 K; start at the bottom left square and travel up and down columns to read 'snakes and ladders'.
- 14 E; all the rest are the same figure rotated.
- 15 Indirect, straight
- 16 Starting-point
- 17 F
- 18 161;  $68 + 93 = 161$
- 19 Damson; to give: bid, lea, ham, his, too, fan.
- 20 8;  $3 \times 8 = 24 - 6 = 18$
- 21 a) wooden trellis

$$\begin{aligned}22 \quad 152; \quad (9 \times 17) + 18 &= 171 \\(8 \times 13) + 16 &= 120 \\(11 \times 12) + 20 &= 152\end{aligned}$$

23 Cheetah

$$\begin{array}{cccccccc}24 \quad 29; & 22 & 21 & 30 & 29 & 38 & 37 & 46 \\& -1 & +9 & -1 & +9 & -1 & +9\end{array}$$

25 A

26 Paravane

27 Corporeal, spiritual

28 e) a sea monster

$$29 \quad 1\frac{12}{13}, \quad \frac{3}{5} \times \frac{125}{39} = \frac{25}{13} = 1\frac{12}{13}$$

30 E; the lower two circles combine to form the circle above but similar symbols disappear.

31 Tootle

$$\begin{array}{l}32 \quad -1; \text{ there are two series:} \\ \quad +2\frac{1}{2} \quad 6, 8\frac{1}{2}, 11, 13\frac{1}{2} \\ \quad -4 \quad 11, 7, 3, -1\end{array}$$

33 c) fall

34 Badger

35 A

36 Phantoms, spectres

37 i or j

38 e) wind

39 2420484; 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024,  
2048, 4096

40 F; A is the same as G  
C is the same as E  
B is the same as D

# Test ten

## Answers

- 1 5246; in the others the middle number is half of the number formed by the first and last digits, eg 3186 ( $36/2 = 18$ ).
- 2 Circumvent
- 3 C; the figure at the bottom goes to the top. The figure inside the larger figure at the bottom rotates through  $90^\circ$  and goes to the top. The larger figure at the bottom reduces in size and goes inside the figure now at the top.

- 4 Eradicate, eliminate
- 5 Eternity ring
- 6 C; it contains the black dot and one smaller white circle inside the large circle, and one smaller white circle and black circle partly inside the large circle.
- 7 Charmingly
- 8 B; the smallest number is discarded at each stage and the remaining numbers travel in the opposite direction to the previous stage.
- 9 E; so one dot is in one circle and the other dot is in the circle and ellipse.
- 10 2;  $7 + 8 + 8 = 23$
- 11 Eventful, ordinary
- 12 117; alternately subtract, then add the sum of the digits of the previous number.
- 13 A; the triangles become one large triangle and the truncated ellipse becomes two, rotating  $180^\circ$  and going inside the triangle.
- 14 Sleigh ride
- 15 Loom

- 16 Chivalrous
- 17 C; at each stage one of the sections goes through  $45^\circ$  and continues to move  $45^\circ$  at subsequent stages.
- 18 6; add 0.5, 1, 1.5, 2
- 19 DEPNU = UPEND
- 20 Take the top circle on the left with the bottom circle on the right, etc, to spell out beard, heard, heart, learn, pearl, weary and yearn, with the addition of EAR.
- 21 Cashmere
- 22 c) strychnine
- 23 b) ventage = a small hole in a flute.
- 24 b) a dance
- 25 E; B is the same as F  
A is the same as D  
C is the same as G
- 26 c) marriageable
- 27 Boxer
- 28 a) paddling

29 Pippin

30 C; the two lower circles combine to form the circle above but similar symbols disappear.

31 364; the sequence is  $\times 3 + 1$ .

32 Bearing, mien

33 Gibbons

34 91; starting with 100 reduce by nine each segment, jumping three clockwise.

35 A

36  $7\frac{1}{2}$ ; there are two series:  
 $+3\frac{1}{2}$  4,  $7\frac{1}{2}$ , 11,  $14\frac{1}{2}$   
 $-1\frac{1}{2}$  12,  $10\frac{1}{2}$ , 9,  $7\frac{1}{2}$

37 Feminine, womanish

38 Ounce

39 Ant

40 C; the lower two circles combine to form the circle above but similar symbols disappear.